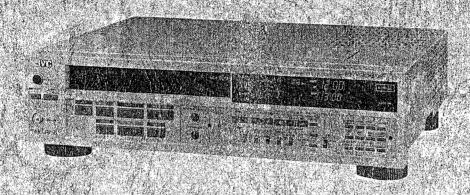
JVC

SERVICE MANU

TIME LAPSE VIDEO CASSETTE RECORDER

BR-9060

[Revised Edition]



SPECIFICATIONS

GENERAL

Recording system

Signal system

Tape speed

Record/Play time

Operating

temperature Operating humidity Storage temperature Power requirement

Power consumption

Dimensions

VIDEO

Input Output

Horizontal resolution

S/N ratio

Luminance — FM Chroma — Down-converted PAL/CCIR, 625 lines 23.39 mm/s (VHS SP)

11.70 mm/s (VHS LP) 3, 6, 24, 72, 120, 240, 480

and 960 hours

(with E-180 video cassette)

5°C to 40°C. 35 % to 80 % 20°C to 60°C

220 -240 V AC, 50/60 Hz , ...

30 watts

435(W) x 124(H) x 370(D) mm

0.5 to 2.0 Vp-p, 75 ohms

unbalanced, BNC 1.0 Vp-p, 75 ohms, unbalanced,

Colour-240 lines (VHS SP)

B/W-300 lines (VHS SP) More than 43 dB (VHS SP) AUDIO

Number of tracks

mout Output S/N ratio

-8 dBs, RCA –6 dBs, RCA

40 dB (at 3% distortion)

Approx. one year

TIME/DATE GENERATOR

Display

Day, month, year, hours, minutes, seconds, Recording mode

Character size

Power backup

ALARM

Alarm input Alarm output Camera switching

output

Ground input

Alarm input through-out

Negative pulse output (approx. 5 ms) BNC

SERIES RECORDING

Series input Series output Accessories

Ground input, RCA

Series input through-out, RCA

"R6" batteries x 5 Remote control unit x 1 Switch cover x 1

Lock key x 2

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Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical described the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- Parts identified by the symbol and shaded (parts are critical for safety.

Replace only with specified part numbers.

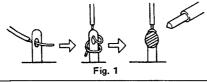
Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.

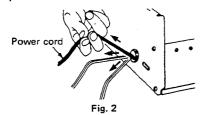
Caution for continued protection against fire hazard. Replace only with same type and rated fuse(s) as specified.

- 4. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
- 3) Spacers
- 5) Barrie

- 2) PVC tubing
- 4) Insulation sheets for transistors
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.



- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- 8. Check that replaced wires do not contact sharp edged or pointed parts.
- When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.



- 10. Also check areas surrounding repaired locations.
- 11. Products using cathode ray tubes (CRTs)
 In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector

In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and Precisely according to the following steps.

- 1) Connector part number: E03830-001
- Required tool: Connector crimping tool of the proper type which will not damage insulated parts.
- 3) Replacement procedure
 - (1) Remove the old connector by cutting the wires at a point close to the connector.

Important: Do not reuse a connector (discard it).



(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.



(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

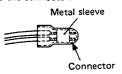


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

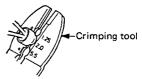


Fig. 6

(5) Check the four points noted in Fig. 7.

Not easily pulled free Crimped at approx. Center of metal sleeve

Wire insulation recessed more than 4 mm

Fig.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

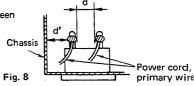
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

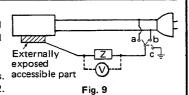


4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. accessible part Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.



5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

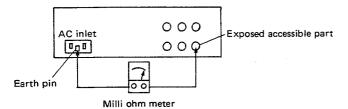


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V		R≥1 MΩ/500 V DC	AC 1 kV 1 minute	d, d'≧ 3 mm
100 to 240 V	Japan	H ≥ 1 M32/900 V DC	AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	-	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ /500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	$d \ge 4 \text{ mm}$ $d' \ge 8 \text{ mm (Power cord)}$ $d' \ge 6 \text{ mm (Primary wire)}$

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	0	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μΕ Ι	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V	France & Assemble	0	$i \le 0.7 \text{ mA peak}$ $i \le 2 \text{ mA dc}$	Antenna earth terminals
220 to 240 V	Europe & Australia	0	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

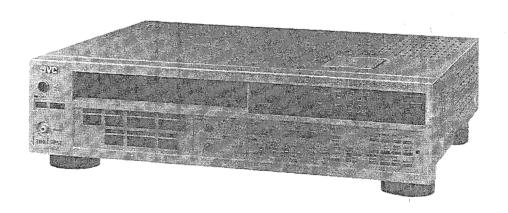
Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

INSTRUCTIONS

JVC BR-9060E

TIME LAPSE VIDEO CASSETTE RECORDER



Warning Notice FOR YOUR SAFETY (Australia)

2. If any doubt exists regarding the earthing, consult a power outlet.

1. Insert this plug only into effectively earthed three-pin

- qualified electrician. Extension cord, if used, must be three-core correctly က်

IMPORTANT (In the United Kingdom) Mains Supply (AC 240 V∿) WARNING — THIS APPARATUS MUST BE EARTHED

wires in this mains lead are coloured in accordance The wires in turs with the following code:
GREEN-and-YELLOW:

NEUTRAL

3ROWN:

EARTH

3

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings indentifying the terminals in your plug, proceed as follows. The wire which is coloured GREEN-AND-YELLOW must be the letter E or by the safety early symbol \(\frac{1}{2} \) or coloured GREEN or GREEN-AND-YELLOW. The wire which is coloured BLUE must be connected to the terminal which is connected to the terminal in the plug which is marked with marked with the letter N or which is coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

POWER SYSTEM

This set operates on 220 to 240V \sim ,50/60 Hz Connection to the mains supply

Directives This unit is produced to comply with 76/889/EEC, 82/499/EEC and 87/308/EEC.

Note: The rating plate and the safety caution are on the rear of the unit.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

cold place to a warm place. The water vapor in warm air will

and may cause damage to the tape and the recorder

Handle the recorder carefully.

Avoid using the recorder immediately after moving from a condense on the still-cold video head drum and tape guides

Be careful of moisture condensation -places subject to vibrations, and

-poorly ventilated places.

CAUTION

To prevent electric shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

Before packing, be sure to remove the cassette from the

Avoid violent shocks to the recorder during packing and

on the top cover of the recorder.

Use in horizontal (flat) position only.

In case of transportation.

transportation.

Video cassettes are equipped with a safety tab to prevent

Video cassettes

accidental erasure. When the tab is removed, recording

cannot be performed.

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Precautions	Connections	Recording	Special-Effects Playback 10	Next-Function Memory

nstant Timer Recording. Fime/Date Generator Program Timer Setting. Recording On-Screen Display Alarm Recording. n Case of Difficulty Slock Adjustment. Series

Specifications ...

Avoid using the recorder under the following conditions:

Handling and storage

PRECAUTIONS

—extremely hot, cold or humid places.

-dusty places,

—near appliances generating strong magnetic fields,

- If you pour a cold liquid into a glass, water vapor in the air will condense on the surface of the glass. This is called moisture condensation.
- Moisture condensation on the head drum, one of the most crucial parts of the video recorder, will cause damage to the
- Moisture in the air will condense on the recorder when you move it from a cold place to a warm place, or under extremely humid conditions.

Operation

 When a cassette is loaded, the power is switched on and, if the safety tab has been removed, playback begins automatically.

Do not block the ventilation openings.
Do not place anything heavy on the recorder.
Do not place anything which might spill and cause trouble

- The cassette can be unloaded even when the power is off. Pressing the EJECT button turns the power on and, after ejection of the cassette, shuts it off automatically in this case.
- As long as the TIMER button is engaged with the TIMER indicator lit, the POWER and EJECT buttons have no effect and unloading of a cassette is not possible. If a cassette has not yet been inserted, simply insert a cassette; the power will be switched on to load the cassette properly and, after completion of automatic loading, the Timer Recording Standby mode will be engaged with power off.
 - The batteries installed in the top panel must be replaced once a year.

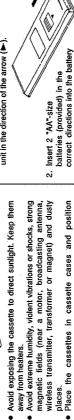
Installing the batteries

Slide the battery compartment cover on the rear of the unit in the direction of the arrow (

Avoid exposing the cassette to direct sunlight. Keep them

away from heaters.

- Safety tab



Replace the cover. compartment.

Do not use longer tapes than the E-180 Video Cassette with

the BR-9060E vertically.

wireless transmitter, transformer or magnet) and dusty Avoid extreme humidity, violent vibrations or shocks, strong magnetic fields (near a motor, broadcasting antenna

AVAILABLE RECORDING OPTIONS ACCORDING TO THE SETTING OF THE REC MODE BUTTON

REC MODE			Recording time	ще		Recording	Audio	Playback
0	E-30	E-60	E-90	E-120	E-180		Billingson	
VHS/SP	30 min	1 hour	1 h 30 min	2 hours	3 hours			ı
VHS/LP	1 hour	2 hours	3 hours	4 hours	6 hours	1	Yes	1
TL/24	4 h 30 min	9 hours	12 hours	18 hours	24 hours	0.16 sec		0.32 sec
TL/72	12 hours	24 hours	36 hours	54 hours	72 hours	0.48 sec		0.96 sec
TL/120	20 hours	40 hours	60 hours	90 hours	120 hours	0.8 sec	; d	1.6 sec
TL/240	40 hours	80 hours	120 hours	180 hours	240 hours	1.6 sec	2	3.2 sec
TL/480	80 hours	160 hours	240 hours	360 hours	480 hours	3.2 sec		6.4 sec
TL/960	160 hours	320 hours 480 hours	480 hours	720 hours	960 hours	6.4 sec		12.8 sec

1

RECORDING FUNCTIONS

SP (Standard Play) and LP (Long Play) modes. This choice allows a recording time suitable for any purpose to be In the time-lapse mode, recording times of 24, 72, 120, 240, Recording times of 3 hours and 6 hours are possible in the selected, whether you're out for a few minutes or several 480 and 960 hours can be selected with an E-180 cassette. ● MAXIMUM RECORDING TIME OF 960* HOURS days at a time.

Factory set to 480-hour mode

Set DIP switch 7 on the rear panel to OFF. ALARM RECORDING FUNCTION

0

switches from the time-lapse mode to the SP or LP mode to When an afarm signal is input, the BR-9060E automatically record the incident in greater detail, so that it can be seen clearly in playback. The alarm recording time is selectable between 15 sec, 180 sec, to the tape end, and while alarm pulses are being input, using a DIP switch on the rear

TIMER RECORDING FUNCTION

0

The BR-9060E incorporates a 14-day/8-event timer that can be set to record for a predetermined time each day, each weekday (either Monday thru Friday or Monday thru Saturday) or each week.

The 8-event feature allows greater versatility in setting. CANCEL PROGRAM

0

Timer recording can be cancelled for specific days; up to 14

days within one year can be specified.

0

The BR-9060E is designed for use with a sequential switcher and has a camera select signal output, so that camera switching is synchronized with the time-lapse CAMERA SWITCHING FUNCTION

The duration of the camera select signal output is selectable between 1 frame, 2 frames, 25 frames, and 50 frames, and the width of the pulse is 5 msec. This signal is output in the TL, SP, and LP recording modes. recording intervals for continuous coverage.

TIME/DATE GENERATOR 0

and recording mode when the recording was made can be The date (year, month, day), time (hour, minute, second) superimposed on the screen.

The position of the display at the bottom right of the screen VIDEO MODE SELECTION

The BR-9060E incorporates a Colour/Auto/B & W video

mode select switch.

The horizontal resolution is more than 300 lines (B/W

PLAYBACK FUNCTIONS

SHUTTLE SEARCH

High-speed search in the forward and reverse directions is P and time-lapse modes. 2x/-1x search is also possible possible at 9x normal speed for recordings made in the SP or all recordings

These playback functions allow you to check any scene STILL FRAME ADVANCE AND TL MODE PLAYBACK slowly and carefully 0

ALARM SEARCH FUNCTION

be retrieved at high-speed even in the FF/REW mode to A VISS (VHS Index Search System) code is recorded on the control track at the start of alarm recordings: these can fhanks to this function, the customers can trace the point review any suspicious activities that triggered an alarm. of alarm recordings using the consumer model VHS deck which has a VISS capability at his home.

D POWER FAILURE AUTO RESET SAFETY FUNCTIONS

is restored, recording restarts in the same mode as before If there is a power failure during recording, when the power the power outage, automatically

For perfect picture, the heads are cleaned every time the NEWLY DEVELOPED HEAD CLEANING MECHANISM lape is loaded and unloaded and at regular intervals in time apse modes 9

(1) REPEAT FUNCTION

When the tape has been fully recorded, it is rewound and recording restarts from the beginning, to ensure that nothing is missed. A similar function makes playback more e

KEY LOCK FUNCTION

By operating the lock key, the function buttons are disabled and mistakes in operation are prevented. The green LED on the front panel will light in key lock mode.

This helps schedule maintenance. 5000-HOUR HOUR METER **e**

© TIME/DATE BACKUP

Even if there is a power failure, the time and date are

backed up for about 1 year and do not need to be reset. TAPE END BUZZER (Three minutes)

When the tape is about to finish, this warns the operator.

The last alarm and power loss start time (YEAR/ MONTH/DAY) will be memorized and indicated in the on-ALARM/POWER LOSS MEMORY

SERIES RECORDING IN/OUT CONNECTORS WIRED REMOTE CONTROL CAPABILITY

99

after pressing the REW button, the tape will be rewound to the tape enters the alarm search mode in the reverse its start and playback will start automatically. (During When the ALARM REC switch @ on the front panel is set to ON, and this button is pressed in the Play or Stop mode, direction. If the PLAY button is pressed within 2 seconds rewind, the PLAY indicator on the FDP will blink.)

Press once to play a tape; press again for double-speed playback. To return to normal playback, press again. Also press this button to cancel the Pause/Still and Search modes. (See pages 10 and 11.) STOP button PLAY/X2 button 0

To stop the tape. When the STOP button is pressed, the ape is unloaded and the Stop mode is engaged. Θ

Press to temporarily stop the tape to avoid recording unwanted material or to view a still picture. The picture advances every time this button is pressed. PAUSE/STILL button е

Fast Forward (FF) button

9

Press to fast forward the tape in the cassette. While the tape is being fast forwarded, the FF indicator on the FDP will mode you want next. Pressing this button in the Play or Still light. This button can be pressed in any mode except Record, Eject or Timer. To release the Fast Forward mode, press the PLAY, STOP or REW button, depending on the mode enables high-speed playback at about 9 times

When the ALARM REC switch @ on the front panel is set to ON, and this button is pressed in the Play mode, the tape normal, in the forward direction.

enters the alarm search mode in the forward direction.

When time and date characters are superimposed on the picture, their brightness can be adjusted with this control by using a screwdriver. Turn clockwise for brighter characters and counterclockwise for darker characters. ON SCREEN BRIGHT control

softer picture. Turn clockwise for a sharper picture and counterclockwise for a softer picture. Effective only for the Turn to adjust the video output signal delivered from the VIDEO OUT connector on the rear panel for a sharper or playback picture.

SHARPNESS control

V-Lock control • AL/PL RESET button

In the Still mode, turn this to eliminate shaking of the

Pressing this resets the Alarm and Power Loss counter.

CONTROLS AND CONNECTORS

9 9 þ 88.88 88.88 md \$0*0\$0 \$0*0\$0 \$080\$0 \$080\$0 먪 \$ 15 m 0000 [8] [] 8888 9 FRONT PANEL (A)

Press to turn power on. The indicator will light. Loading a POWER button with LED indicator cassette also turns the power on. Key Lock with LED indicator

To lock: Insert the provided key into this key hole and turn it clockwise. The LOCK indicator will light and all buttons Front panel: Buzzer switch, Auto Rec switch, Repeat switch, On-Screen switch, and Video Mode switch. and switches except the following will be locked: 0

Rear panel: DIP switch in the compartment, and V-Pulse switch.

To unlock: Insert the provided key into the key hole and turn it counterclockwise. The LOCK indicator will turn off and all the locked buttons and switches will be released. **EJECT button**

Press to eject the cassette. This button can be pressed in any mode except the Timer mode. The cassette indicator on the FDP (fluorescent display panel) will flash while a cassette is being unloaded and then go out upon 0

Insert a VHS cassette. The door will close and an indicator completion of unloading. Cassette loading slot 0

showing that a cassette has been loaded will appear on the

REMOTE control terminal (RCA)

The provided remote control unit can be connected to this REV button 0 0

Press in the Play, Still or Search mode to play back a tape

recording. Each time it is pressed subsequently adds 30 minutes to the recording time, to a maximum of 9 hours. (See pages 9 and 15.) To start recording with the remote control unit, press the REC and PLAY buttons simultaneously. (The REC button of the remote control cannot be Press once to start recording; press again for instant timer used for instant timer recording.) REC button backwards. 0

Rewind (REW) button 0

Timer. To release the Rewind mode, press the STOP or FF Press to rewind the tape in the cassette. While the tape is being rewound, the REW indicator on the FDP will light. This button can be pressed in any mode except Record, Eject or button, depending on which mode you want next. Pressing playback at about 9 times normal in the reverse direction. this button in the Play or Still mode enables high-speed During search, the REW indicator on the FDP will remain tit.

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REC mode indicators

These indicate the recording time and playback time (when using an E-180 cassette) selected with the REC/PLAY

MODE button @.

→ VHS modes 28: SP mode 1P: LP mode 24: 24H mode 72: 72H mode 120: 120H mode 240: 240H mode 860: 480H mode

indication for the 960H Time Lapse modes (Note: The on-screen mode is 480H.) 240:] (960H mode) 480: ⊜

REC/PLAY MODE select button

Select the tape speed in recording or playback VHS SP: for the VHS SP mode. VHS LP : for the VHS LP mode.

for time lapse mode

24: for 24-hour mode

72: for 72-hour mode 120: for 120-hour mode 240: for 240-hour mode 480: for 480-hour mode 960: for 960-hour mode

BUZZER ON/OFF switch

ON: The buzzer beeps 3 minutes before the tape reaches

No buzzer operation. Also, set to OFF to stop the beeping buzzer. OFF:

Note: If the VTR is used for surveillance, this switch should be set to ON.

AUTO REC switch 0

Recording restarts automatically when power is restored after a power failure. Also use this position when recording with an external timer. ë

If the AUTO REC function is not required, be sure to set the switch to OFF, otherwise recordings could be Effective with cassettes with safety tab in place. Note: OFF:

erased by accident, **ALARM REC switch**

0

6-hour (VHS/LP) recording mode when an alarm signal is input in time lapse recording mode. The recording mode can be set to continue for 15 sec, 3 min, to the tape end, or while alarm pulses are being or Stop mode, the tape enters the alarm search To switch to the 3-hour (VHS/SP) recording mode or input. If the FF or REW button is pressed in the Play ä

The tape then enters the playback mode from the afarm cue point.)

To continue recording in the same mode with no alarm recording operation. OFF:

REPEAT REC/PLAY switch ë

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When the end of the tape is reached in recording, the tape is rewound and recording restarts automatically from the start. When the end of the tape is reached in playback, the tape is rewound and playback restarts

No repeat operation. OFF:

0

Time/date information is recorded together with the input signal and is superimposed on the monitor ON SCREEN ON/OFF switch ON: Time/date information is

OFF: No information is recorded or superimposed. screen.

@ TRACKING (+/-) buttons

If noise bars can be seen during playback, double-speed playback and slow search, use these buttons to minimize

their effect. Tracking is reset to normal when both buttons are pressed together, a cassette is ejected, or the power plug is disconnected.

WIDEO MODE select switch

signal during recording or the output signal during Select one of the three positions according to the input piayback.

Set to this position when the input or playback video signal is a colour signal. COLOUR:

colour and black/white, allowing optimum recording and playback. When this position is used with black/white signals, a higher picture resolution can be obtained. Normally set this The circuit is automatically switched between switch at this position. AUTO:

Set to this position when the input or playback signal is a monochrome signal. Higher picture esolution will be obtained. B/W:

COUNTER RESET button: Press to reset the counter on **@ TIMER/TDG buttons**

the FDP to "00 00".

mode after you have preset the time for unattended TIMER button: Press to engage the TIMER standby

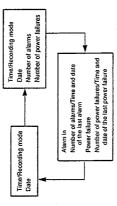
 PROGRAM/CLOCK button: Press to change the display to the timer set mode.

 CANCEL button: Press this button at any time during timer programming to clear the program, or use to engage

the cancel program mode. • SET (+/-) button: Press these to adjust the displayed

SHIFT (NEXT/BACK) buttons: Press these to change displayed figure when setting the clock and programming data when setting the clock and programming the timer.

Selects the on-screen display mode between the ON SCREEN SELECT button following three.



TDG Position V/H buttons

Use to shift the position of the superimposed time and date characters in the vertical and horizontal directions. (See page 16.)

Horizontal direction

Vertical direction

Press to repeat programmed timer data weekly. REPEAT button

Lights when an alarm recording starts.

ALARM indicator

TOP PANEL

@ Fluorescent display panel (FDP)

FIMER mode indicator

@ HOUR METER (5,000 hours) 0

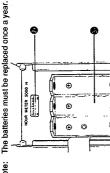
Note:

Alarm search, status display

 Clock
 Timer start time Switchable display

"Cassette loaded" indicator

For the batteries backing up the time/date generator. **Battery Holder**



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A Constant (Bank)

Switchable display

 Timer stop time Cancel program Tape counter

imer programming aids

Date

REAR PANEL

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O AC input socket (AC IN 220V-240V)

Connect to a 220V-240V AC, 50/60 Hz power outlet. O VIDEO IN connector

Input connector for composite video signat O VIDEO OUT connector Output connector for composite video signal.

Accepts alarm signals; minimum putse width is more than O ALARM INPUT terminal with GND

The terminal uses an input-grounding type contact. 20 msec.

O ALARM OUTPUT terminal with GND

Input connector for audio signal. O AUDIO IN connector Outputs alarm signal.

AUDIO OUT connector

BR-9060E is automatically changed from the Stop mode to the Record mode. Connect this terminal to the SERIES REC Accepts a signal for series recording. With this input, the Output connector for audio signal. SERIES REC IN terminal 0

OUT terminal of the preceding video recorder. SERIES REC OUT terminal

time-lapse video recorder can operate for recording in series. Connect this terminal to the SERIES REC IN Delivers a signal at the end of the tape so that a second terminal of the subsequent video recorder. 0

Delivers a command signal for camera switching to a CAMERA SW OUT connector camera sequential switcher. 0

Low active pulse, width: 5 m sec. W.PULSE switch

interlaced cameras, set to ON for reducing vertical dancing Usually set to OFF. When signals are supplied by nonof the playback picture on the monitor. DIP switch 9

Remove the cover with a screwdriver.

1.2.3. ALARM REC select switches 1. REC MODE select switches SP mode

REC TIME select switches LP mode

REC TIME Alarm period 15 sec. 3 min. SW2 ON OFF ON

Set the camera switching interval using switches No. 4 and 5. Normally set them for 25 or 50 frame mode. Ŗ CAMERA SWITCHING OUTPUT select switches A H ð र्ह SW3 5.5

1	,		The state of the s	
fiming	1 FRAME	2 FRAME	25 FRAME	50 FRAME
SW4	NO	8	OFF	OFF
SW5	8	OFF.	ð	OFF

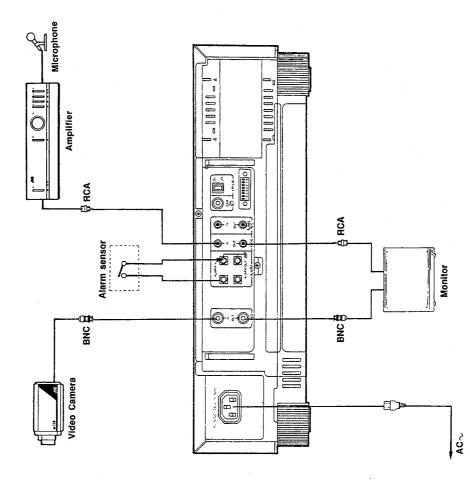
SW5 ON OFF ON AUTO REWIND mode select switch OFF: No AUTO REWIND operation ø.

7. 480H/960H time-lapse recording mode select switch AUTO REWIND mode ä

ON: 480 H OFF: 960H

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I Connection to a camera with a built-in SSG

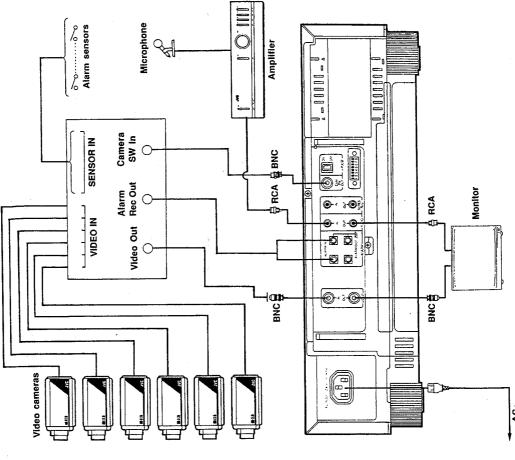


- (1) Connect the rear panel VIDEO OUT and AUDIO OUT connectors to a monitor.
 - (2) Connect the video output of the camera to the VIDEO IN
- connector.

 (3) If an audio input is required, connect a microphone to the AUDIO IN connector via an optional amplifier.
- (4) If an alram sensor is to be used, connect across the ALARM INPUT terminal and GND.

 (5) After completing connection, connect the power supply cord.

II Connection to several cameras using a sequential switcher



- (1) Connect the video cameras and alarm sensor to the sequential switcher. (2) Connect switcher's video output, alarm signal output and camera switching signal input to the corresponding terminals of the recorder.
- (3) Connect a monitor to the VIDEO OUT and AUDIO OUT connectors.

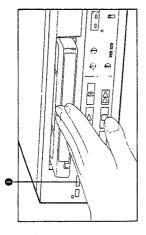
 (4) After completing connection, connect the power supply cord.

LOADING AND UNLOADING A VIDEO CASSETTE

PLAYBACK

 With a cassette inserted, the order to indicate "cassette insert a cassette as illustrated with its labelled side facing you. inserted" appears on the display panel

Press the EJECT button . The cassette will be ejected.



Motorized loading system

The cassette can be loaded even when the power has not been turned on. Inserting a cassette into the loading slot turns the power on automatically.

RECORDING

- The cassette can be unloaded even when the power has been turned off. If a cassette is inside, pressing the EJECT button turns the power on automatically and, after ejection of the cassette, shuts it off automatically
- Inserting a cassette, with its safety tab removed, turns the recorder on and playback of the cassette begins automatically.

Notes:

- Be sure to insert the cassette firmly into the slot; otherwise, it will be automatically rejected.
- The automatic loading mechanism will operate only when the cassette is inserted correctly.

Caution

- If unloading of a cassette is not possible, check to see whether the TIMER indicator is lit. If so, press the Do not attempt to pull out the cassette once automatic TIMER button so the TIMER indicator extinguishes.
 - loading has started.

Do not insert fingers or any foreign object beyond the door flap of the cassette loading slot, as this could lead to injury or damage to the mechanism. Show special WARNING caution with children

- Press the POWER button on.
 Set the REC/PLAY MODE button as required.
 Insert a pre-recorded cassette into the cassette loading
 - When the cassette loaded has no safety tab, playback starts automatically.

Noise bars may appear on the screen if you play back a tape which was recorded using another VTR. In such cases, adjust the TRACKING controls @ Press one of the buttons

6 Adjust the picture as required with the SHARPNESS Press the PLAY/X2 button. The tape will start running and the playback picture will appear on the monitor screen 0

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VIDEO CASSETTE PECONOER BR-90608

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<u>VHS</u>

- B Press the STOP button to stop playback control
- buttons simultaneously. It is reset automatically when the correct the picture referring to the monitor. After playback, tracking may be reset manually by pressing both tape is ejected or the power cord pulled out.

SPECIAL-EFFECTS PLAYBACK

SHUTTLE SEARCH

normal rewind or fast forward takes place. When these buttons are pressed in the Play, or Still mode, the tape runs at about 9 limes normal speed in the corresponding direction. The buttons When the REW or FF button is pressed in the Stop mode, can be tocked and the indicator lights.

 For briefer scanning, keep the REW or FF button pressed for more than 2 seconds; when you release the button, the You can follow the speeded-up picture on the monitor screen Search mode will be cancelled

ALARIM SEARCH

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Note:

pressing FF while in the Play or Still mode for less than 2 initiates alarm search in the forward direction and pressing REW for less than 2 seconds initiates alarm search in the reverse direction. When the tape reaches the start of an When the ALARM REC switch on the front panel is set to ON alarm recording, it enters the playback mode automatically. During alarm search, the "VISS" mark on the FDP will light. seconds

While in the Pause mode, a Record-Pause bar appears at the bottom of the screen and indicates the elapsed time

up to 5 minutes 25 seconds by reducing its size.

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Press the REC button to ON. The record mode will engaged and the REC indicator on the FDP will light.

Press the STOP button to stop recording.

RECORD-PAUSE

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temporarily.

Insert a video cassette into the cassette loading slot.

Set the REC/PLAY MODE button as required.

000

 Press the PAUSE/STILL button 6 to stop recording Press the PLAY/X2 button to restart recording.
 Note: If left in the Pause mode for more than about 5-

1/2 minutes, the VTR will enter the Stop mode.

If the FF or REW button is pressed in the Stop mode, the

tape stops at the start of an alarm recording.

- will stop and a still picture will be obtained.
- To advance the still picture, press again
- To return to the normal Play mode, press the PLAY/X2

- When the STILL mode continues for longer than about 5 Note:
- minutes, the STOP mode will be entered automatically.

 Turn the V-LOCK control to eliminate shaking of the picture.

STILL & FRAME ADVANCE

- Press the PAUSE/STILL button in the Play mode, the tape

- 6

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- Press the REV button in the PLAY mode; the tape will be played back in reverse at normal speed.
- To cancel reverse playback, press the PLAY, STOP, STILL or SEARCH button.

DOUBLE-SPEED PLAYBACK

- Press the PLAY/X2 button in the Play mode; double-speed To resume normal playback, press the same button again. playback will be engaged.

NEXT-FUNCTION MEMORY

Memory Piay function

- If you want to watch the tape from its beginning after rewinding, press the REW button and then PLAY within 2 seconds. Playback will start automatically at the beginning of the tape.
 - While the tape is being rewound, the PLAY indicator is blinking. To cancel the Memory Play mode and go to another mode, press the corresponding button (STOP, PLAY, FF, REW, EJECT, Power OFF)

Memory Eject/Power-Off/Timer Standby

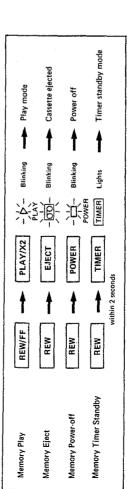
engage the Timer Standby mode after rewinding the tape, you don't have to wait for completion of rewind to press the corresponding button.

• To eject the cassette after rewind, press REW and then EJECT within 2 seconds, (To cancel the Memory Eject mode, press STOP, PLAY, FF or REW).

• To turn the power off after rewind, press REW and then POWEH within 2 seconds. (To cancel the Memory Power-off If you are going to eject the cassette, turn the power off or

mode, press POWER.)

To engage the Timer Standby mode after rewind, press REW and then TIMER within 2 seconds. (To cancel the Memory Timer Standby mode, press TIMER or Power.)



CLOCK ADJUSTMENT

Plug the recorder into an AC outlet. "SU" and "0:00" will flash on

Press the "SHIFT NEXT" button, then the day will flash.

4.

- If left for longer than one minute, this mode is cancelled.

 1. Press the PRG/CLK button to enter the clock adjust
- Press the SET (+/-) button (9 to enter the day.
 Press the "SHIFT NEXT" button, then the month will flash. Press the SET (+/--) button to enter the month. ĸ. ø,
- Press the "SHIFT NEXT" button, then the year will flash. Press the SET (+/-) button to enter the year (last two Press the SET(+/-) button @ to enter the hours,

 I one digit is to be input, press "SHIFT NEXT", then the
- digits). 7. Timekeeping will start when the PRG/CLK button is pressed.

Notes:

Hours

- If you want to alter the setting of only one entry, the flashing digits can be changed by pressing the "NEXT" and "BACK The correct day of the week will be displayed automatically.
- The seconds will be reset to "00" by pressing the SHIFT (NEXT/BACK) or SET (+/-) button in the Clock Adjust mode.

- Year

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repeatedly changes the display mode in the following When re-adjusting the time, pressing the PRG/CLK button

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Timer mode -- Clock Adjustment mode -- Clock mode ---

Power failure indicator

flash. This is not a malfunctioning of the clock, but it indicates that the batteries are discharged. Re-adjusting the time with replaced batteries restores the normal condition of the clock The entire clock display may be reset to SU 0:00 and start to

PROGRAM TIMER SETTING

Press the "SHIFT NEXT" button, then the minutes will flash,

Month

then press SET(+/-) button @ to enter the minutes.

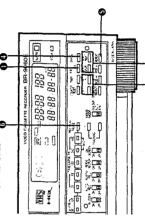
To program the timer, the clock must have been set correctly. 1. Turn on the power and press the PRG/CLK button $\pmb{\Theta}$ to set

to the Program Timer Set mode

 To advance to programs 2 to 8, press the "SET +" button the required number of times. After program 8 the display Program number "1" will blink will return to the clock mode.

2. Verify the program to be set by pressing the SHIFT NEXT

"SU" will blink.



(day, starting time, and stop time) with SET (4/-) buttons © and verify the data for each time with the SHIFT (NEXT/BACK) buttons ©. Then set the desired data by selecting the item to be set

The data is also displayed on the monitor screen.

- To see the on-screen data, supply a composite video
- signal to the video input connector.

 To cancel the program, press the CANCEL button **①**.

 To repeat this program weekly, press the REPEAT
 - 4. To select the recording mode, set the REC/PLAY.MODE select button @ on the front panel. button 6
- After one program has been set, to move to the next program, press the SHIFT NEXT button @.
 - When data has been set, press the PRG/CLK button again.

- The tens place will also change accordingly when the units place is advanced or reversed by pressing the SET (+/-) button.
 - When the SHIFT NEXT button is pressed after the starting time has been set, the same time is displayed for the stop time.

Variety of day setting possibilities

So.	Setting	Setting method	Indication FDP
-	One day of the 1st week {week after week}	SET (+ REPEAT)	<u>(100</u>
2	One day of the 2nd week (week after week)	SET (+REPEAT)	(i)
က	Daily recording from Sunday through Saturday (week after week) SET (+ REPEAT)	SET (+ REPEAT)	000 000 384 484 484 484 484 484 484 484 484 484
4	Daily recording from Monday through Saturday (week after week) SET (+ REPEAT)	SET (+ REPEAT)	900 900 900 900 900 900 900 900 900 900
rc.	Daily recording from Monday through Friday (week after week)	SET (+ REPEAT)	99. 198. 198. 198. 198. 198. 198. 198. 1

As the SET (+) button is pressed, the indication progresses in sequence from No. 1 to No. 5 of the above settings and

REPEAT indication is available by pressing the REPEAT button at any time in the setting procedure.

- then returns to No.
- The 1st week or 2nd week do not refer to weeks on the calendar; the 1st week refers to the seven-day period from the present

Error Indication

- day and the 2nd week, to the following seven-day period. These two weeks are counted from the time of setting Timer operation When the TIMER button is pressed with a cassette loaded and the timer correctly programmed, the TIMER indicator on
 - the display will light with the corresponding preset program number(s) also lighting and the power is turned off.
- that all the preset program numbers light together with the TIMER indicator when the TIMER button is pressed. The preset. Recheck the programmed data. If two or more on the FDP will blink rapidly after the TIMER button has been programs will begin only after earlier programs are When you have preset several programs at a time, confirm programs have overlapping times, the OVER LAP indicator pressed. If no change is made in the programmed data, later program whose number does not light has not been correctly completed.
- If all programs have been wrongly preset, the TIMER indicator will blink for about 10 seconds when the TIMER button is pressed, and then the Timer Standby mode will be
- If the TIMER button is pressed when a cassette is not loaded, the TIMER indicator will continue blinking.
- If the TIMER button is pressed when a cassette whose and TIMER indicators will blink and the cassette will be safety tab has been removed is loaded, the "tape loaded"
- As long as the TIMER button is engaged with the TIMER indicator lit, unloading of a cassette is not possible.
- When the TIMER button is pressed before all programming items have not yet been set, the program number blinks and turns off after 10 seconds. Recheck the programmed data.

- Tape loading starts 20 seconds before the preset start time and the recording start signal is triggered 2 seconds before the preset time so that recording starts exactly at the preset
- During timer recording, the number of the program that is presently operating will be blinking.
- to OFF, the cassette will be ejected.) If the preset time If the end of the tape is reached during timer recording, the Auto Rewind mode is engaged and, after rewind to the tape beginning, recording will re-start if the REPEAT REC/PLAY switch is set to ON. (If the REPEAT REC/PLAY switch is set expires during rewind, the power is switched off.
- When the tape is ejected at the tape end during timer recording, replace the cassette and press the REC button; timer recording will continue.
- but also all the preset data will be cancelled. (A blinking SU 0:00 indicates this after power has been reapplied.) In such case, first correct the time indication and then re-enter the If a power failure should occur, not only time-keeping stops, programming data

Checking the programmed data

Timer Standby mode. The FDP will show programmed data for 5 seconds for each program number by automatic switching. You can also check each program by advancing program numbers manually with the SET + button. (if left for To do this, press the recorder's PRG/CLK button while in the more than 60 seconds, this display will be cancelled.) If reprogramming is required, disengage the Timer Standby mode and use the regular programming method

ON-SCREEN DISPLAY

Each time the front panel ON SCREEN SELECT button is pressed, the on-screen display changes in the following Normal display mode

time/date when the tast atarm recording occurred are failures and the time/date when the last power failure Up to 99 can be displayed for both alarm inputs and power

occurred.

Under ALARM IN, the number of alarm inputs, and the displayed. Also, under POWER LOSS, the number of power

Time/Date generator data to be recorded (hours, minutes,

•

seconds, recording mode, day, month, year

- Number of alarm inputs and power failures, in addition to 10. Press the AL/PL RESET button to clear the numbers. 5-7-90 AL-02 PL-01 Press once. 20:05:40 SP 23:20:00 4-7-90 POWER LOSS 23:25:00 4-7-90 ALARM IN Press once. 20:05:40 SP 5.7.90 Press once.
- Procedure:

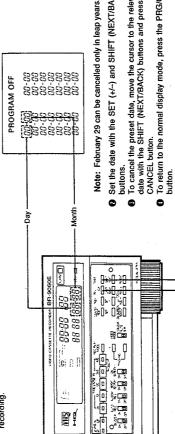
After setting the timer for daily or weekly recording, up to 14 days in a year can be cancelled so that timer recording will not be executed on those days. For instance, 14

Cancel Program mode

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consecutive days or 14 Sundays can be omitted from timer

❸ Press the CANCEL button ⓓ for longer than 5 seconds and then press the PRG/CLK button ⓓ within 5 seconds. Then the following on-screen display will appear with day digits



- Set the date with the SET (+/-) and SHIFT (NEXT/BACK)
- To cancel the preset date, move the cursor to the relevant date with the SHIFT (NEXT/BACK) buttons and press the CANCEL button.
- To return to the normal display mode, press the PRG/CLK

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INSTANT TIMER RECORDING

After you start recording, the recorder can be set to stop automatically after a certain period of time.

Press REC button while recording (or twice if in the Stop mode).

• The following indication will appear on the display, to show that the recorder is recording in the Instant Timer Recording mode and power will switch off after 30 minutes.

Each time the REC button is pressed, recording time increases by 30 minutes to a maximum of 9 hours. If the REC button is pressed again, the Normal Recording mode will be entered.

REC STOP

For a more precise time setting, use the SET +/- and SHIFT NEXT/BACK buttons to set to the exact time required.

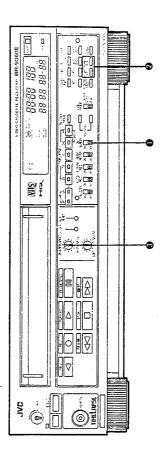
- 1. After "0:30" has appeared, press to set to the exact time
- Press REC button so that the digits stop blinking

Notes:

- Time setting in this mode is possible up to a maximum of 9 hours 59 minutes if the SHIFT (NEXT/BACK) and SET (+/-) buttons are used.
 - down; when 0:00 is reached, the Record mode is released While recording is in progress, the displayed time counts
- after 10 seconds and the power is switched off.

 If you want to stop recording after having started recording in the Instant Timer Recording mode, press the STOP
- If instant timer recording is engaged while the unit is in the Pause mode, the timer will count down normally, but recording will not begin until the PLAY button is pressed.
 When the Instant Timer Becord-Pause mode continues for longer than about 5 minutes, the mode is released and the button.
- power is switched off,

TIME/DATE GENERATOR



The built-in time/date generator allows the time and date to be superimposed on the video image and recorded.

Set the Clock Time accurately as described on Page 12.

• Set the ON SCREEN switch to ON.

• Move the cursor to the appropriate position on the screen

- be moved to the left in 13 steps by pressing the "H" button. The cursor can be moved up the screen in 16 steps by with the TDG "H" and "V" Position buttons, The cursor can
- pressing the "V" button.

 When the cursor is at the left or top of the screen, the next time the button is pressed, it will return to the right or bottom of the screen.

The brightness of the time/date display can be adjusted using the ON SCREEN BRIGHT control. Turn clockwise for a brighter display and counterclockwise for a darker display.

SERIES RECORDING

Series recording refers to successive recording with more than one recorder, allowing unattended recording for an extended

OPBHATION

1. Load cassettes in the required number of recorders and locate the starting position for each tape.



Load cassettes in all recorders

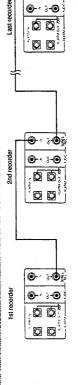
When the tape in the first recorder comes to an end, the second recorder starts recording automatically. Likewise, recording continues to the end of the tape of the last Start recording with the first recorder. recorder

Note:

• If a cassette is not loaded in one of the recorders, series recording stops there.

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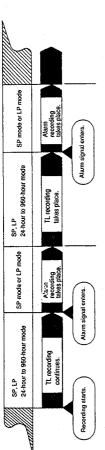
Connect the SERIES REC OUT terminal **©** of the 1st recorder to the SERIES REC IN terminal **©** of the 2nd recorder. Connect the SERIES REC OUT terminal of the 2nd recorder to the SERIES REC IN terminal of the 3rd recorder, and so on.

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ALARM RECORDING

When an unusual incident is observed in the scene being recorded in the Time Lapse mode and an alarm is given, the

Recording mode changes automatically to a faster speed for more detailed coverage of the incident.



- An alarm sensor can be connected across the ALARM INPUT and GND terminals.
 Set the REC/PLAY MODE button to TL 24, 72, 120, 240, 480, or 560.
 Set the ALARM REC switch to ON.

IN CASE OF DIFFICULTY

Symptom	Cause	Remedy
No power is applied to the recorder.	 Power cord is unplugged. 	 Plug in the power cord.
Tape control buttons do not function.	●TIMER switch is set to ON.	 Release the key lock and set the TIMER switch to OFF.
Playback picture does not appear while tape is running.	 Monitor is not connected correctly. 	Check the connections.
Noise bars are visible during playback.	TPACKING control is not correctly adjusted.	 Turn the TRACKING control slowly in either direction to move the noise bars off the screen.
Playback picture is blurred or interrupted. •Video heads may be dirty.	 Video heads may be dirty. 	 Head cleaning is necessary. Consult your nearest JVC dealer.
No audio is available during playback.	 No audio signal is recorded during TL recording. 	 Check the mode in which the tape was recorded.
Recording is not possible.	 Safety tab is removed from the cassette. 	 Change the cassette to one with safety tab in place.
Timer recording is not possible.	 TIMER indicator is off. The time/date generator is not correctly preset. 	 Press the TIMER switch set to ON. First set the clock time correctly, then program the timer.

SPECIFICATIONS

: Negative pulse output (approx. 5 ms), BNC : Day, month, year, hours, minutes, Ground input, RCA
Series input through-out, RCA
'Ref batteries x 5
Remote control unit x 1
Switch cover x 1
Lock key x 2 seconds, Recording mode : Ground input : Alarm input through-out : -8 dBs, RCA : -6 dBs, RCA : 40 dB (at 3% distortion) : 16H : Approx. one year TIME/DATE GENERATOR SERIES RECORDING AUDIO Number of tracks Camera switching Series input Series output Accessories Character size Power backup Alarm input Alarm output Output S/N ratio ALARM Display output unbalanced, BNC : 1.0 Vp-p, 75 ohms, unbalanced, BNC Recording system : Luminance — FM Chroma — Down-converted Signal system : PAL/CCIR, 625 lines Tape speed : 23.39 mm/s (VHS SP) 11.70 mm/s (VHS LP) Record/Play time : 3, 6, 24, 72, 120, 240, 480 and 960 hours Horizontal resolution : Colour-240 lines (VHS SP) B/W-300 lines (VHS SP) S/N ratio : More than 43 dB (VHS SP) (with E-180 video cassette) : 0.5 to 2.0 Vp-p, 75 ohms, GENERAL Operating VIDEO Output Input

- 18 -

SECTION 1 DISASSEMBLY

1.1 REMOVING OF EXTERNAL COVERS

- Top cover Remove six screws (A).
- Front panel assembly
- 1. Remove the top cover.
- 2. Disengage three upper hooks of the front panel ass'y by lifting them upward.
- 3. Remove the front panel ass'y in a manner to turn it to
- Bottom cover Remove seven screws (B).
- Cassette housing door
- 1. Remove the front panel ass'y.
- 2. Pull the cassette housing door by the center to this side in a manner to bend the door. Then, it is disassembled from the main body by the section ①.
- 3. Paying attention to a torsion spring set on the left hand,

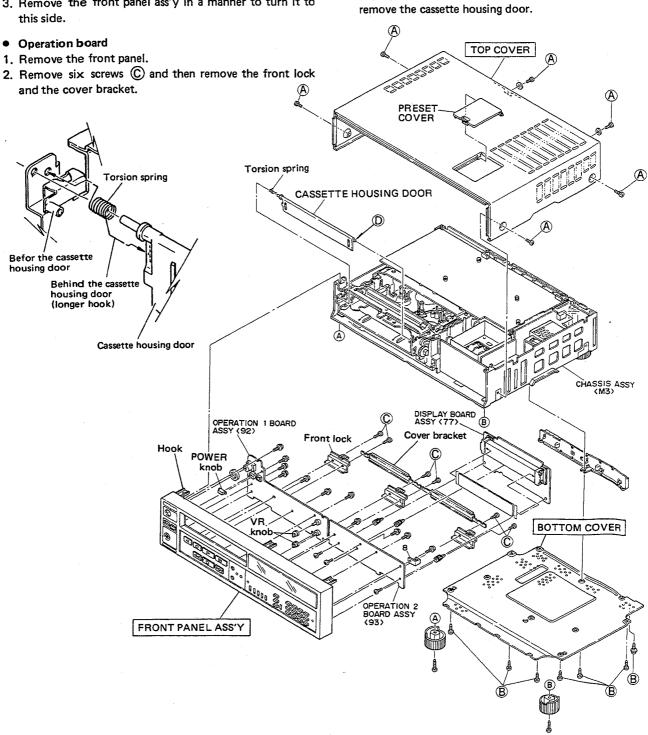


Fig. 1-1 Removing of external covers

1.2 REMOVING OF MAIN BOARDS

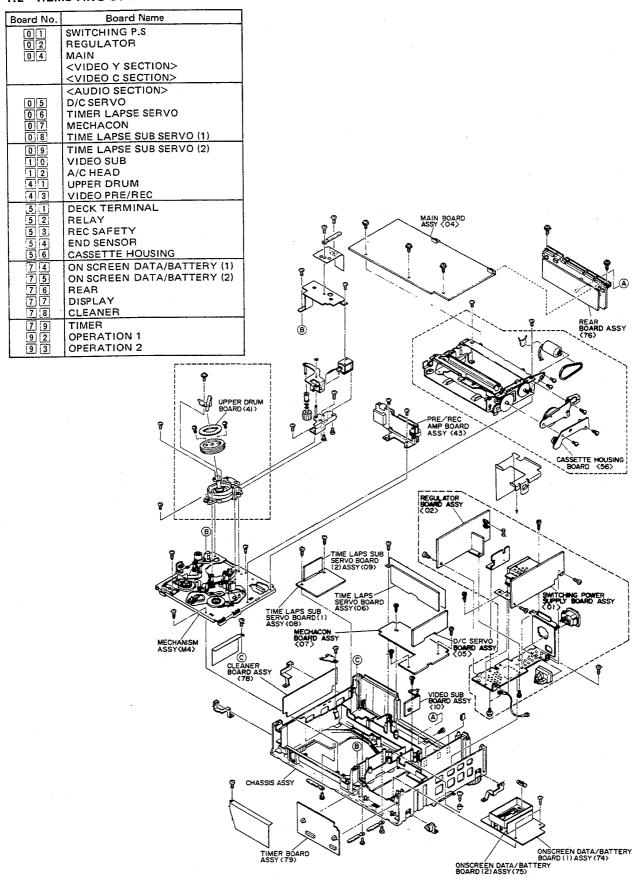


Fig. 1-2 Removing of main boards

1.3 REMOVING OF MAIN BOARD

- 1. Remove the top cover.
- 2. Refer to Fig. 1-3 and take out 3 screws (E) from main board assembly.

Note: Make sure not to remove the screws indicated by the asterisk (*) mark.

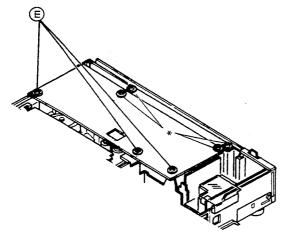


Fig. 1-3 Removing of MAIN board

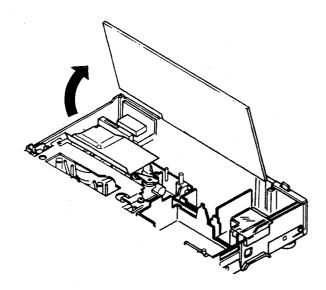
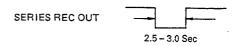


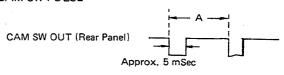
Fig. 1-4 How to lift up MAIN BOARD

1.4 REFERENCE

• SERIES REC PULSE



• CAM SW PULSE



DIP	sw	PULSE OUT
4	⑤	INTERVAL A
ON	ON	40 mSec (1 Frame)
ON	OFF	80 mSec (2 Frame)
OFF	ON	1.0 Sec (25 Frame)
OFF	OFF	2.0 Sec (50 Frame)

• TIME LAPSE REC INTERVAL

REC MODE	REC INTERVAL
24 H	9 FRAME (180 mSec)
72 H	25 FRAME (500 mSec)
120 H	41 FRAME (820 mSec)
240 H	81 FRAME (1620 mSec)
480 H	161 FRAME (3220 mSec)

1.5 USAGE OF EXTENSION BOARD

Two kinds of extension boards are prepared for BR-9060. They are not required for adjustment but necessary for troubleshooting and checkup in repair.

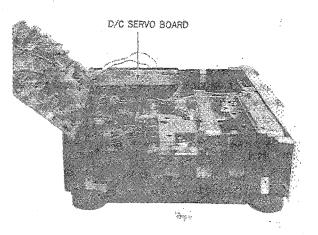
 Extension board for D/C SERVO board

: PGJ05037

· Extension board for

TIME LAPSE SERVO board: PGJ05038

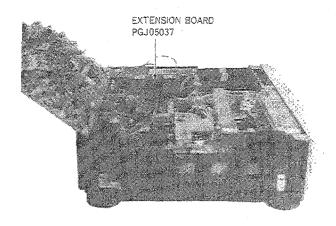
Extension board	Extension board
PGJ05037	PGJ05038



6. In the products whose serial numbers are before 320, the shield wire assy between the D/C SERVO board and the TIME LAPSE SERVO board may be at the very limit to do the above-mentioned connection work. (The shield wire assy of the serial No. 320 and after is a little longer.)

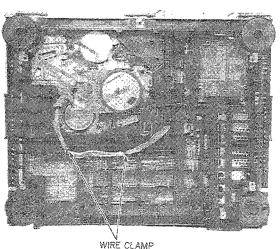
1.5.1 Connection of extension board PGJ05037

- 1. Take off the top cover.
- 2. Remove three screws from the A/V board and turn it up to open.
- 3. Disconnect connectors from the D/C SERVO board.
- 4. When disconnecting the D/C SERVO board from the MECHA CTL board, carefully disconnect the connectors not to hurt hands since they are tightly connected.
- Install the extension board and replace the D/C SERVO board horizontally as it was. Then, connect all connectors between them.



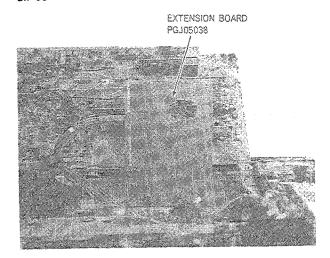
1.5.2 Connection of extension board PGJ05038

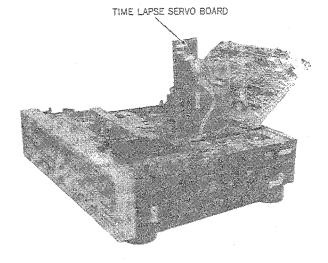
- 1. Take off the top cover.
- 2. Remove three screws from the A/V board and turn it up to open.
- Disconnect all connectors from the TIME LAPSE SERVO board.
- Remove eight screws retaining the bottom cover and take it off.
- 5. Release the shied wires of the capstan motor from the wire clamps in the bottom of the main deck.



WINE CLAMP

- 6. Disconnect the TIME LAPSE SERVO board from the MECHA CTL board with care not to hurt hands since the two boards are tightly connected by connectors. It is recommended to disconnect them after removing two screws retaining the REAR board assy and the AVV board assy.
- Place the extension board vertically and replace the TIME LAPSE SERVO board as it was. Then, carefully pull the shield wires of the capstan motor and connect all connectors.

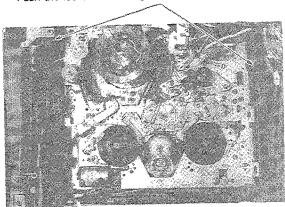




16 REMOVAL OF MAIN DECK

- 1. Take off the top cover.
- Remove three screws from the AV board and turn it up to open. (Refer to Section 1.3.)
- 3. Remove the drum cover assy.
- 4. Remove the cassette housing assy. (Refer D Section 2.2.)
- 5. Detach the cleaner assy and leave it in the left of the original position.
- Disconnect wires including two earth wires from the A/C head, and remove the earth terminal.
- Disconnect flat wires coming from the mechacon from the main deck. (Refer to Section 2.8.6)
- 8. Remove two screws retaining the PRE/REC board and lift the board upward while removing it.
- Disconnect the connector from the upper part of the full erase head.
- 10. Take off the bottom cover and disconnect connectors for the capstan motor. (Refer to Section 1.5 (2).)
- 11. Remove three screws retaining the main deck.
- Push the locks of the chassis assy in the both sides of the main deck while lifting the main deck by the front side of it.

Push the locks while lifting the main deck upward.



Note: To separate the main deck completely from the whole assembly, disconnect connectors which connect it respectively with the lower drum and the heater.

SECTION 2 MECHANISM ADJUSTMENT

2.1 GENERAL

2.1.1 Precautions

IMPORTANT:

- Disconnect unit from power before removing or soldering components.
- When removing a fastener (screw, washer, etc.), be careful not to drop it into the mechanism. If a fastener should be dropped, be sure to retrieve it.
- The tape transport mechanism has been precisely adjusted at the factory and ordinarily does not require readjustment.
- 4. When removing a part, be very careful not to damage or displace other parts. (Be especially careful with the tape guides and rotary video head drum.)
- For service procedures that set for the Play mode when the cassette housing is separated from the maindeck, perform as below.
- 1) Set a sheet of insulated material on the top of chassis.
- 2) Remove the cassette housing from the main-deck and place it on the insulated sheet, but do not disconnect the housing connector.
- 3) Cover the cassette LED on the main-deck with an opaque cover.
- 4) The Play mode can be obtained by using the Play switch without a cassette tape.

2.1.2 Required test equipment, fixtures and tools

For proper mechanical adjustment, the following test equipment, fixtures and tools are strongly recommended. Without them, a long trial-and-error period would be necessary, resulting in possible damage. In addition, general-purpose tools are required.

1. Test equipment required:

Color television or monitor

Oscilloscope: Wide-band, dual trace, triggered, delayed sweep

Recording tape
Alignment tapes

Alignment tape MHPE, MHPE-L, MBPE-X	Cassette torque meter PUJ42881	A/CTL head position tool PUJ47351-2
Parallel check plate PUJ50204		

Table 2-1-1 Fixtures and tools

2.1.3 Layout of main parts

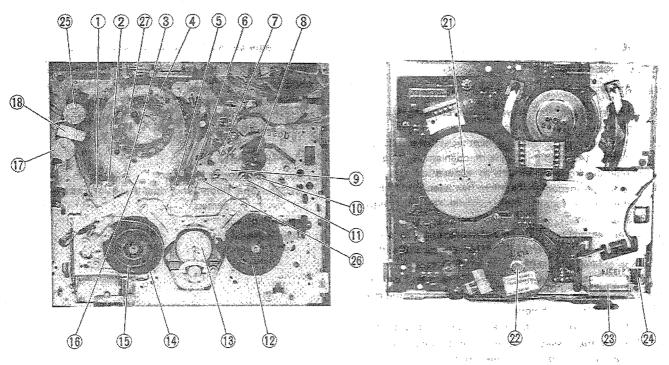


Fig. 2-1-1 Top view of main-deck

Fig. 2-1-2 Bottom view of main-deck

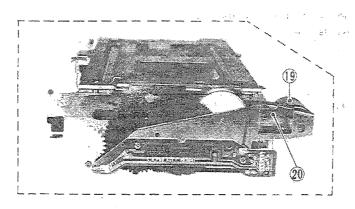


Fig. 2-1-3 Cassette housing

- 1. Supply guide roller
- 2. Supply slant pole
- 3. Tension arm assy
- 4. Upper drum assy
- 5. Take-up slant pole
- 6. Take-up guide roller
- 7. A/C head
- 8. Pinch roller arm assy
- 9. Take-up guide pole
- 10. Guide arm assy

- 11. Capstan shaft
- 12. Take-up reel disk
- 13. Idler arm
- 14. Tension band assy
- 15. Supply reel disk
- 16. Lower drum assy
- 17. Impedance roller
- 18. Full erase head
- 19. Cassette motor
- 20. Cassette moto

- 21. Casptan motor
- 22. Reel motor
- 23. Mode motor
- 24. Mode belt
- 25. Roller assy
- 26. Half loading arm assy
- 27. Brush assy

2.1.4 Main parts replacement table

Periodic inspection and maintenance are needed in order to ensure performance and reliability. The following table has been compiled simply to give a general idea regarding maintenance and inspection. In practice, the periods indicated will vary widely according to environmental and usage

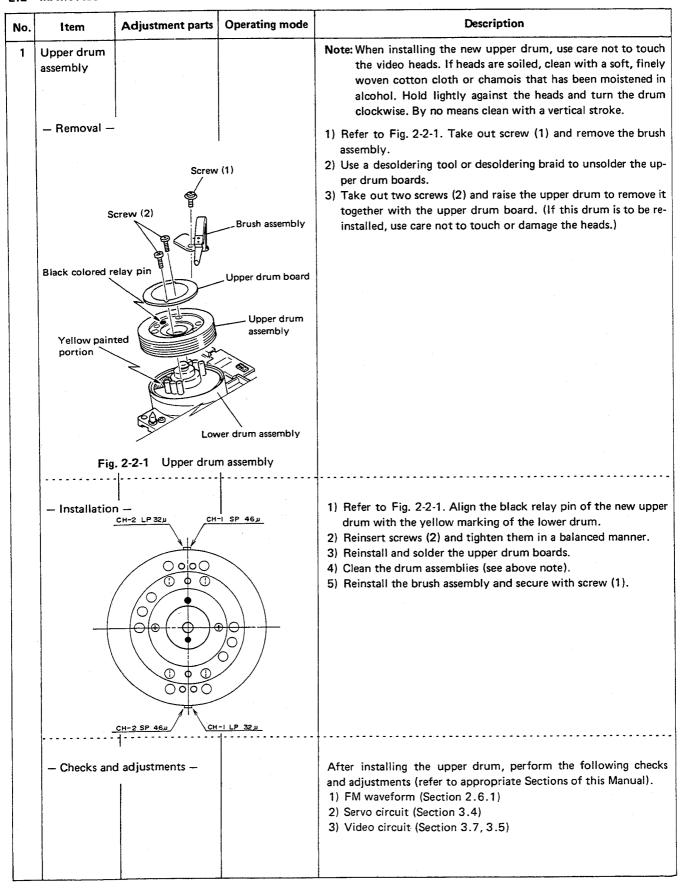
conditions. Also be aware that rubber parts may deform and age even when the equipment is not used. The upper drum life is particularly affected by environmental and usage conditions.

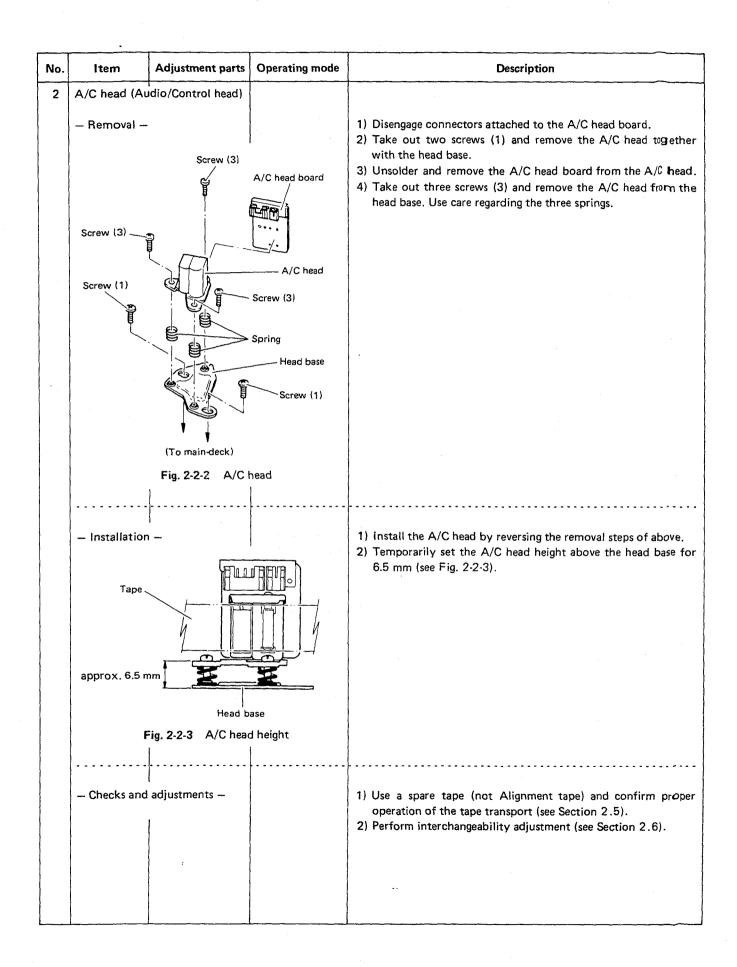
			P	eriodic	servici	ng sche	dule (c	peratin	ng hour	2)	Ref.	
No.	Parts Name	Parts No.	1000	2000	3000	4000	5000	6000	7000	8000	sect.	Remarks
Tape t	ransport system		· · · · · · · · · · · · · · · · · · ·		•					المساسسا		
1	Tension pole ass'y	PQ43710A	*	*	*	*	*	*	*	•		Perform cleaning with finely
2	Supply slanted pole	Ass'y No.	*	*	*	•	*	*	*	•		woven cloth or gauze moistened
3	Supply guide roller	PU60556-1-2	*	*	*	•	*	*	*	•		in alcohol.
4	Impedance roller	PQ41955	*	*	*	•	*	*	*	•		Confirm that the cleaned loac-
5	Take-up guide pole	PU53629-3	*	*	*	0	*	*	*	•		tions are thoroughly dry before
6	Capstan shaft		*	*	*	*	*	*	*	*		operating the deck.
7	Take-up guide roller	Ass'y No.	*	*	*	•	*	*	*	•		For lubrication, use sewing
8	Take-up slanted pole	PGZ01143	*	*	*	*	*	*	*	•		machine oil or good quality spindle oil.
9	Lower drum ass'y	PDM2035V-23	*	*	*	•	*	*	*	•		1
10	Upper drum ass'y	PDM2170A	0	•	0	•	0	•	0	•	2.2.1	After cleaning with alcohol, apply 1 or 2 drops of oil.
11	Full erase head	PU60646	*	*	*	*	*	*	*			ו טו ב מוטף: טו טוו.
12	A/C head	PU60560-2	*	*	*	•	*	*	*	•	2.2.2	·
13	Pinch roller arm ass'y	PQ42006B	*	*	*	•	*	*	*	•	2.2.4	
Drivin	g system											
14	Capstan motor	PGZ01300	*	0	*	•	*	0	*	•		
15	Reel motor	PGZ01332		•		•		•		•		
16	Mode motor	PQ41996B				0				•	2.2.7	
17	Mode belt	PQM30003-20		0		•		0		•	2.2.7	
18	Cassette motor	PQ42385A				0				•		
19	Cassette belt	PQM30003-19		0		•		0		•		
20	Idler arm	PU58645-1-4	*	•	*	•	*	•	*	•	2.2.6	
21	Supply main brake	PQ42019B-6				0				•	2.2.6	
22	Take-up main brake	PQ42020B				0				•	2.2.6	
23	Take-up sub brake	PQ42037A-2				0				•		
24	Supply sub-brake	PQ42021A-3				0				•		
25	Supply reel disk	PU59250-1-2		Δ		Δ		Δ		Δ		
26	Take-up reel disk	PU58638-1-2		Δ		Δ		Δ		Δ		
Other	S							············				
27	Brush ass'y	PDM4015B				•				•	2.2.1	
28	Tension band	PQ41948A		0		•		0		•	2.2.3	←Perform back tension check
29	Head cleaner	PRD40510-01-02	•	•	•	•	•	•	•	•		

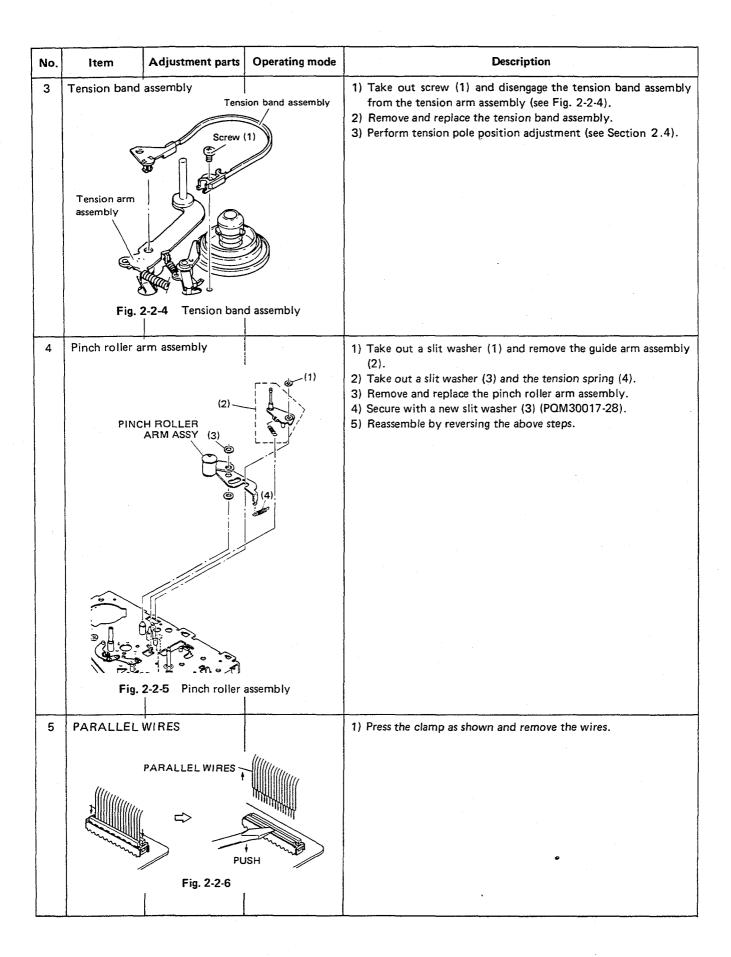
 \star = Cleaning. \circ = Check, or replace if necessary. \bullet = Replacement. \triangle = Lubricate.)

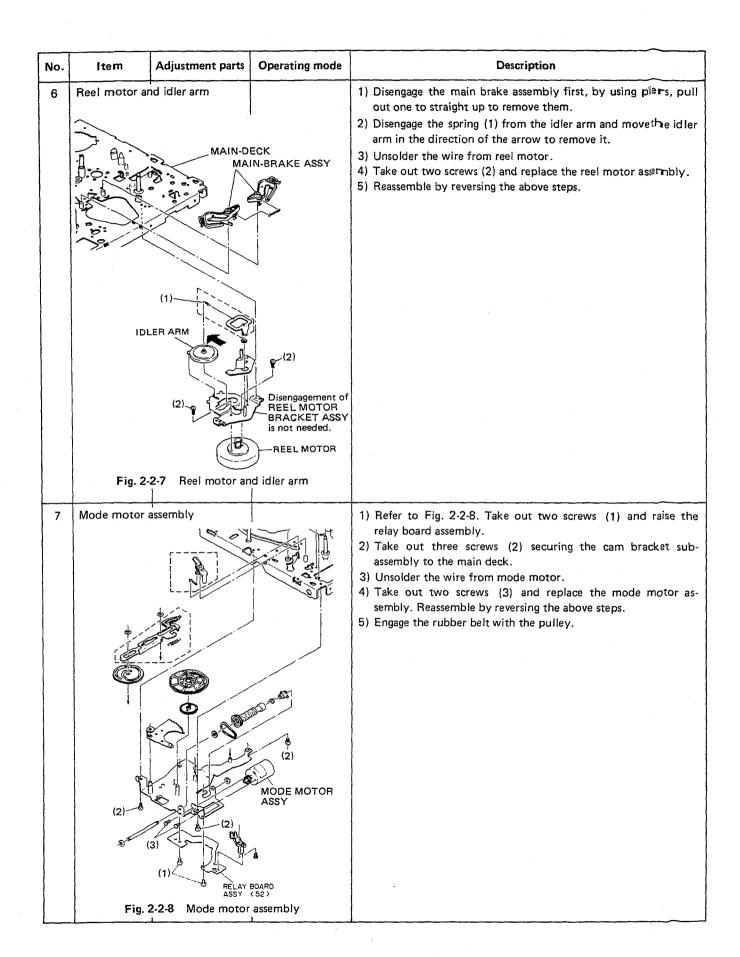
Table 2-1-2 Main parts maintenance and replacement standard

2.2 MAIN ASSEMBLY REPLACEMENT



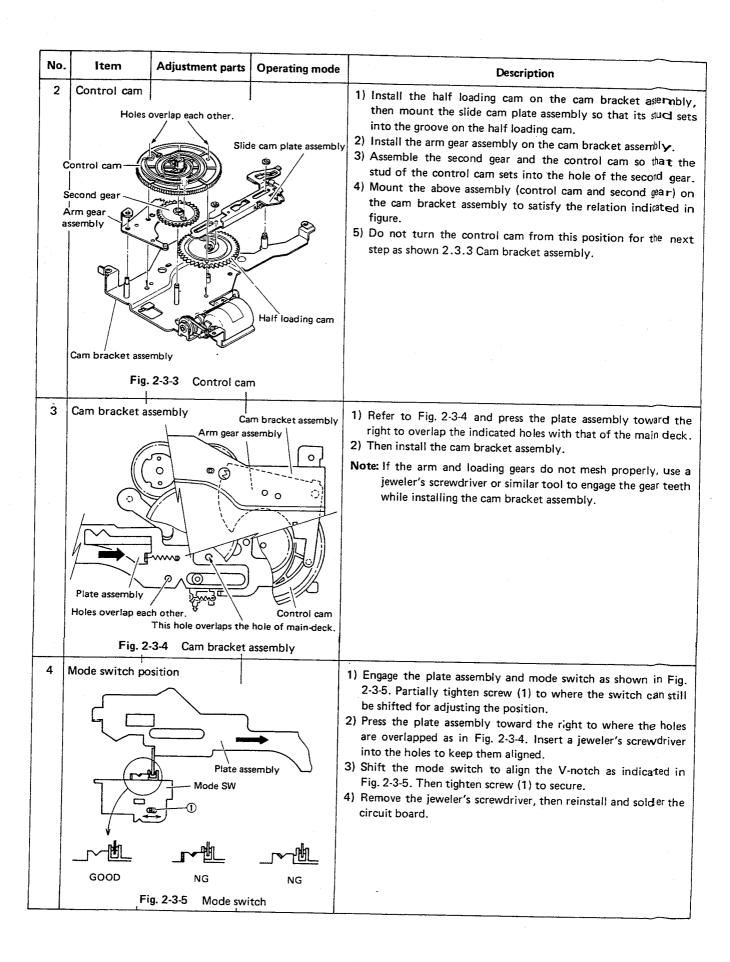






2.3 ASSEMBLY PROCEDURE OF MECHANISM

2.3 No.	item	Adjustment parts	Operating mode	Description
	and control a	rm engagement dete	ermines the overall	switch and the mechacon circuit. Therefore, the mode select switch mechanical operations of the levers, gears, rollers, etc. If these parts stalled in the unloading or Stop mode.
1	Loading arm	assemblies		These assemblies are comprised of loading gears, torsion springs and loading arms.
	Take-up loading arm assembly Supply loading arm assembly			Refer to Fig. 2-3-1 and install the loading arm assemblies correctly.
	Fig. 2	2-3-1 Loading arm	assembly	
	(To take-up pole base) Take-up loading		(White) (To supply pole base) adding arm assembly	2) The take-up and supply loading arm positions with respect to the loading gear holes are indicated in Fig. 2-3-2. This configuration is important to allow shifting to the next operation.



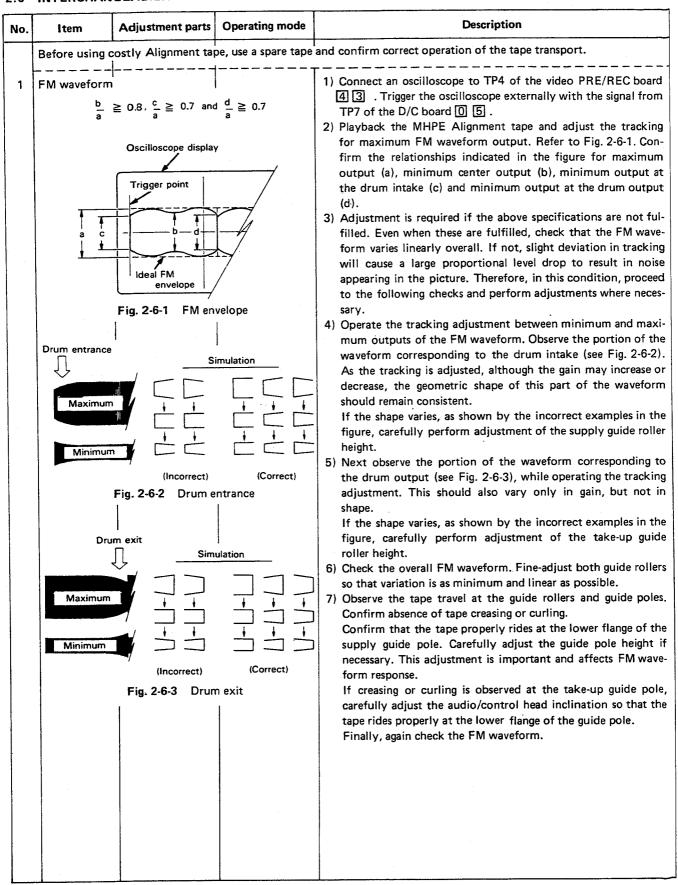
2.4 CONFIRMATION AND ADJUSTMENT

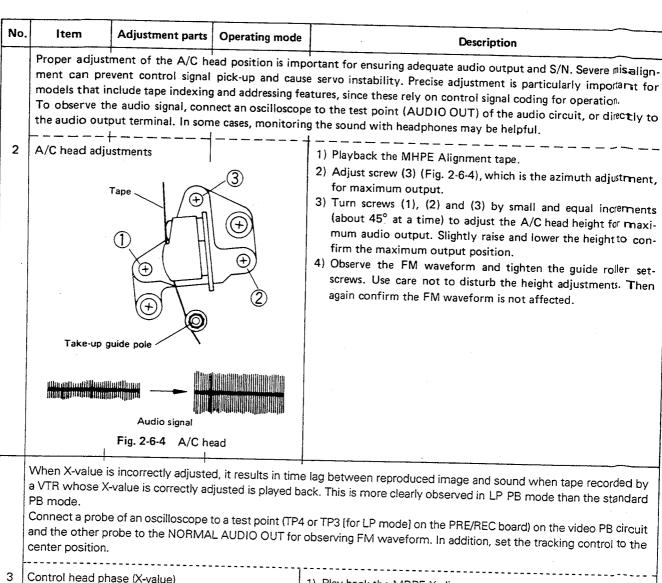
No.	item	Adjustment parts	Operating mode	Description
1	i	Zero (0 mm) Tension Tension	some arm assembly Supply reel disk band holder) le position	 Without a cassette housing, set for the Play mode (see Section 2.1.1). Refer to Fig. 2-4-1. Slightly loosen screw (1). Adjust the tension band holder position for 0 mm separation between the tension arm and cutout position. Tighten screw (1) to secure the tension band holder. Use the cassette torque meter and set for the Play mode. Check for a scale reading between 28 and 42. If outside this range, clean the tension band contacting portions of the supply reel disk with alcohol, or check the condition of the tension arm spring. If necessary, replace the tension band assembly.
2	Take-up torq	ue		 Use the cassette torque meter and set for the Play mode. Confirm a value between 45 and 155. If outside this range, clean the rubber portion of the idler arm with alcohol, if necessary, or check the reel motor drive circuit.

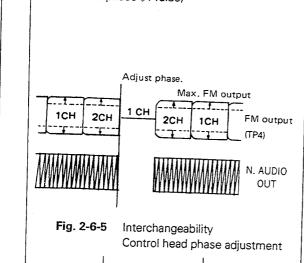
2.5 TAPE TRANSPORT CHECKS AND ADJUSTMENT PREPARATIONS

No.	Item	Adjustment parts	Operating mode	Description
	over, adj-	one may become ne	cessary arrea into	ted at the factory and ordinarily does not require readjustment. How term usage or after replacing parts that affect the tape transport. in interchangeability adjustments of Section 2.6.
1	Guide roller	Turn with screw-drive Guide Setscr Fig. 2-5-1 Guide re	roller ew	1) During interchangeability adjustments, the guide roller is turned with a flat-blade screwdriver to adjust its height and correct FM waveform linearity. Use a metric hex key (1.25 mm) to slightly loosen the setscrew at the base of the guide roller (see Fig. 2-5-1). Loosen the setscrew just sufficiently to allow the guide roller to be turned. If too loose, tape transport will be too unstable to permit correct adjustment.
2	Impedance roll	vith nut-driver.	F.E head	 This compensates for tape running stability between the cassette and head drum. After adjusting the supply guide roller, the impedance roller height is adjusted for smooth tape transport at the lower flange. Use a metric nutdriver (5.5 mm) to adjust by turning the upper nut (see Fig. 2-5-2). However, note that excess turning can disturb the FM waveform stability.
	Fig	J. 2-5-2 Impedance	roller	
3	A/C head (audio	Turn obtain travel	this screw to n smooth tape l. guide pole	1) After adjusting the take-up guide roller, adjust the A/C head inclination for smooth tape travel at the lower flange of the take-up guide pole. Refer to Fig. 2-5-3.

2.6 INTERCHANGEABILITY CHECKS AND ADJUSTMENTS







- 1) Play back the MBPE-X alignment tape.
- 2) Slightly loosen the screws @ and ® of the A/C head, and put the A/C head positioning jig (PUJ47351-2) on the screw @ while inserting the jig's pin into the hole nearby the screw. (See Fig. 2-6-4.)
- 3) Adjust the position of the A/C head so that both phases of audio waveform and FM waveform coincide with each other in the non-recorded part and the FM output becomes nearly the maximum.
- 4) Remove the positioning jig and then tighten the screws 4 and 5
- 5) Play back the MHPE alignment tape, and adjust the tracking control while confirming the maximum FM waveform at the center click position.
- 6) When the FM waveform is not maximum with the tracking control set at the center position in playback of the MHPE alignment tape, move the A/C head to FM MAX position nearest the position obtained in the above step 3).
- 7) Play back the MHPE-L alignment tape.
- 8) Adjust R60 (DC Servo board) to maximize so that the FM output level.

No.	Item	Adjustment parts	Operating mode	Description		
4	Final checks			 Input video signal (B/W signal is preferable) to record it, and play it back to confirm that the PB waveform meets the standard of video FM waveform (see Fig. 2-6-1). Perform this check both in the standard and LP PB modes. Referring to the Section 3 Electrical Adjustment, proceed to check and adjust the servo circuit, video circuit and audio circuit totally. 		
				·		

SECTION 3 **ELECTRICAL ADJUSTMENTS**

Color bar

3.1 PREPARATION

Electrical adjustments are required after replacing circuit components and certain mechanical parts.

It is important to perform these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.

3.1.1 Required test equipment

- 1. Color television or monitor
- 2. Oscilloscope: wide-band, dual-trace, triggered delayed sweep
- 3. Frequency counter
- 4. Audio tester
- 5. Digital voltmerter
- 6. Signal generator: PAL color bar, stairstep, video sweeper
- Recording tape

Check Point

- 8. Alignment tape: MHPE, MH-2, MHVE-2, MHAE
- 9. Head resonance adjust coil: PTU94004A
- 10. RF sweep signal generator (100 kHz 10 MHz)

Color bar signal as video input. Stairstep Stairstep signal as video input. 1 kHz 1 kHz sinewave as audio input signal. E-E Power on and machine in Stop mode.

REC Recording mode PB Playback mode

SLOW Slow motion playback mode STILL Pause during playback mode

VHS mode VHS SP mode VHS mode VHS LP mode TIME LAPSE

mode 24, 72, 120, 240, 480, 960 H mode

Description This column provides an explanation of the step, notes and adjustment values.

Note: Unless otherwise noted, supply a VIDEO signal to LINE IN (BNC connector).

Check and adjustment steps

The check and adjustment steps are provided in the following in the form of charts. For clarity, the nomenclature used in the charts is outlined below.

No. Checks and adjustments are numbered in the recommended sequence in which they

are to be performed.

item Name assigned to the particular check and adjustment step.

> Location to which measuring instrument (oscilloscope unless otherwise noted) is to

be connected.

Variable component (resistor, capacitor, Adjustment etc.) to be adjusted in this step. Dash (-)**Parts**

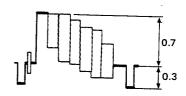
indicates check only. Signal & Mode

• Input signal required to perform adjustment. Dash (-) indicates that special signal is not required.

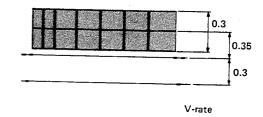
 Equipment operating mode at time of check or adjustment.

3.1.3 Required test signal

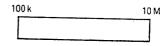
• EBU 75% colour bars



Video sweep (100 kHz – 5 MHz)



Sweep



3.1.4 Alignment tape specifications

• MH-8

No.	PB time	Video signal	Audio signal	Description
1	2 min.	Colour sweep	400 Hz (-10 dB)	for check and adjustment of frequency characteristic in video PB
2	2 min.	,,	100 Hz (-10 dB)	circuits for check and adjustment of frequency characteristic in audio PB
3	2 min.	"	8 kHz (-10 dB)	circuits
4	4 min.	"	_	

MHPE

Video signal	Audio signal	Description	1
VHS SP mode Stairstep		for check and adjustment of interchangeability for check and adjustment of the servo circuit for adjustment of audio head azimuth	Usable in place of MH-2 stairstep

MHVE-2

Video signal	Audio signal	Description	
VHS SP mode	_	for check and adjustment of video signal PB circuits	Usable in place of MH-2 colour bars
Colour bars			

MHAE

Vid	eo signal	Audio signal	Description	
		1 kHz (0 dB)	for check and adjustment of audio signal PB circuits	Usable in place of MH-2 1 kHz signal

3.1.5 Factory switches setting

• Front side

ON SCREEN BRIGHT: Center SHARPNESS: Center BUZZER : OFF AUTO REC : OFF ALARM REC : OFF REPEAT REC/PLAY: OFF ON SCREEN : ON VIDEO MODE : AUTO

• Rear side

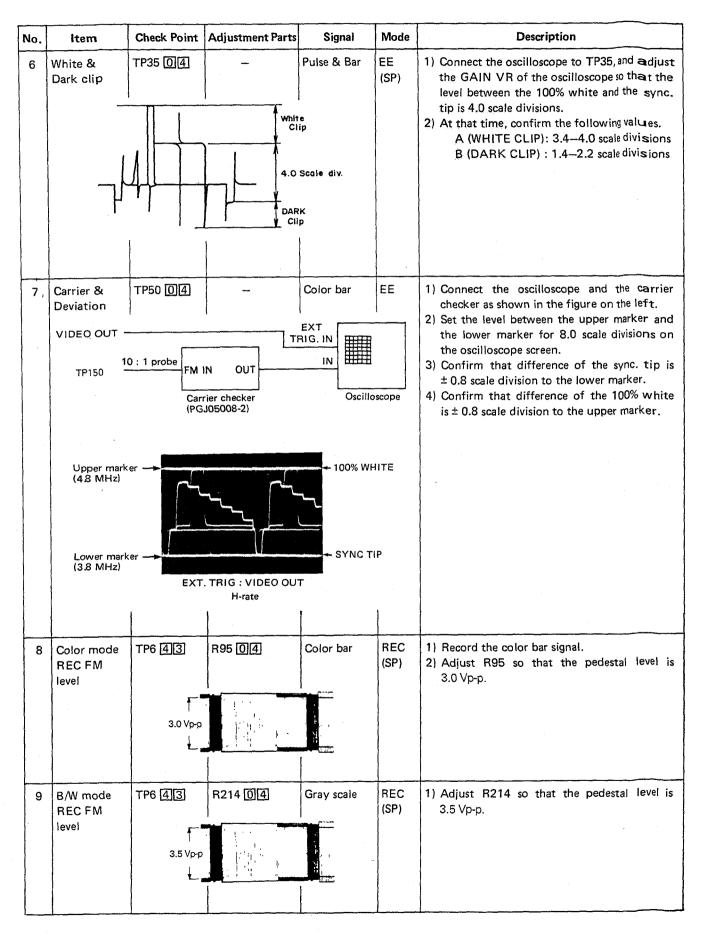
V. PULSE : OFF
DIP SW (1, 3 – 8) : ON
DIP SW (2) : OFF

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Domination
-		 		-	Mode	Description
4	V. pulse check	TP7 [0]5 VIDEO OUT (75-ohm terminated) TP7 —		MHVE-2	Search (X 2)	 Connect the oscilloscope to TP7 (D. FF) Oscilloscope to TP7 (D. FF) Change the initial setting of the following switch. V. PULSE SW : ON Play back the alignment tape MHVE2 in the Search mode. In the left figure, where, 'T₁' is the pulse width between the falling point of D. FF (TP7) and that of the V. pulse of the VIDEO OUT, 'T₂' is the width of the V. pulse, and
			T1 T2	ja l		'a' and 'b' interpret the waveform of the VIDEO OUT, confirm the following things. $T_1 = 290 \pm 30 \mu\text{sec}$ $T_2 = 190 \pm 20 \mu\text{sec}$ $a = 0 \pm 30 \text{mV}$ $b = 290 \pm 40 \text{mV}$
					PB	 5) Change the initial setting of the following switch. V. PULSE SW: OFF 6) Play back the alignment tape, and confirm that there is no V. pulse generated in waveform of the VIDEO OUT. 7) Change the initial setting as follows. V. PULSE SW: ON 8) Play back the color bar segment of the alignment tape, and confirm that there is the same V. pulse as observed in the step 4) impressed. 9) Change the setting of the V. PULSE SW to OFF.
5	Index check	TP3 0[5] DUTY 27.5% PULSE	_	Color bar	REC ↓ PB	1) Connect the oscilloscope to TP7 (D. FF) ①[5] for external trigger. 2) Change the initial setting as follows. REC MODE SW: TL 24H ALARM REC SW: ON 3) Record the color bar signal. 4) In the recording, shortcircuit the ALARM
		DUTY 60%	T1 T2			terminal. 5) Play back the recorded tape from the recording start point. Observing the waveform and assuming that T ₂ = 10 (see the figures on the left), confirm that T ₁ = 2.5-3.0 (27.5 ± 2.5%) in the period of 2 sec after the shorting of the ALARM terminal. 6) In the period that 2 sec have passed after the switching of the mode, confirm that T ₁ = 5.5 -6.5 (60 ± 5%) on condition that T ₂ = 10.

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Description
6		TP3 06 TP4 06	R10 06 R4 06 b b b DUTY 50:25% a = 50:20.5V	Color bar	REC	 Connect the oscilloscope to TP3 and adjust R10 so that the waveform shown on the left meets the following specifications. a = 5.0 ± 0.5 V b = b' (50 ± 5% duty) Connect the oscilloscope to TP4 and adjust R4 for the same purpose of the above step 1). Note: If there are fluctuations in the measured values, adjust by the center value respectively.
7	Stop servo level adj.	TP6 06 TP GND 06	R43 06 R38 06 R45 06	- C	REC	 Connect the oscilloscope to TP6 and set the mode to REC with a E-180 cassette tape loaded. Adjust R43 so that a and a' of the waveform of TP6 are equalized with each other (a = a' [50 ± 5%]). Alternately adjust R38 and R45 so that the waveform of TP6 meets the following specifications. B = 3.0 ± 0.2 VDC R45 C = 6.0 ± 0.5 Vp-p R38 Note: If there is stepping down/up in the waveform, adjust by the higher level as it is the criterion. If there is fluctuation in the measured value, adjust by the center value.
		TP7 06 TP GND 06	GND	-	STOP	4) Connect the oscilloscope to TP7 and confirm no fluctuation in the waveform level. (at the stabilized voltage)
8	Slow F-V converter adjustment	TP8 [0]6 TP GND Upigital voltmeter TP13:3.9	R56 06 0 ± 0.05 V DC	МНРЕ	РВ	1) Adjust R56 to obtain 3.90 ± 0.05 V DC as voltage at TP8.
9	F-V converter center voltage adjustment	TP GND Uigital voltmeter	# 0.1 V DC	МНРЕ	РВ	1) Adjust R62 to obtain 2.5 ± 0.1 V DC as the voltage at TP12.

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Description
10	F-V limiter adjustment	TP11 06	SWEE	Color bar LOSCOPE P RANGE Sec / div.	REC (24H)	1) Connect the oscilloscope's CH1 grobe to TP11. (Trigger: INT + , Sweep mode: NORMAL) 2) Change the initial switch setting as follows. REC MODE SW: TL 24H 3) Adjust R87 so that the width 'a' of the waveform of TP11 becomes 2.8 msec.
11	1	TP3 [0][7]	R75 06 R38 06 R45 06		REC (24H)	1) Change the initial switch setting as follows. REC MODE SW: TL 24H 2) Connect the CH-1 probe of the dual-trace oscilloscope to TP1 while its CH-2 probe to TP3 for external trigger on the pulse (+) slope. 3) Confirm that the waveform of TP1 is stabilized 2-3 pulses after the rise point of the TP3's pulse. (2 ± 1 pulses) 4) If the condition is out of the step 3), adjust as follows. • Number of pulses: Adjust R75 and confirm the steps 5) and 6). • Stability of waveform: Adjust R38 and R45. Confirm the stop servo level adj. (No. 7) 5) Connect the oscilloscope to TP10, TP8 trigger it externally. (+ slope, TP8 [0] [5] D/C servo, NORMAL) 6) Confirm that the section 'a' of the waveform of TP8 becomes 3.2 ± 0.3 V DC. At the same time, confirm that 'b' is 1.4 ± 0.15 V DC. Note: Perform the adjustment with the beginning of the tape.

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Description
12	TL REC CTL position	TP1 08 TP-1 (T.L.SUB.: TP-2 (T.L.SUB.: TP-2 (T.L.SUB.: TP7 05		NORM) 3.2 4.0 Scale ydiv.	PB TL 24H	 Input the color bar signal and record it. REC MODE SW: TL 24H Connect the oscilloscope's CH-1 to TP1 and CH2 to TP2. Adjust R104 so that 'a' of the waveform is 46 msec. (a = 46 msec) (ext. trigger: TP2, - slope) Adjust R101 so that 'b' becomes 15 msec. (b = 15 msec) (Trigger: INT, + slope) Connect the oscilloscope probes to TP4 and TP7. Maximize FM level by pressing the TRACK-ING button. At the same time, the FM level should be adjusted to be 4 scale divisions on the oscilloscope screen. Then, press the TRACKING buttons simultaneously for tracking preset, and confirm that the FM level is 3.2 scale divisions or more. If not, vary the value 'a' of the above step 3) first and repeat the steps 5) through 7).
13	TL skew adj.	TP3 08 VIDEO OUT (TV monitor	1	/div.	REC TL72H (TL24H) REC TL24H	Note: The above-mentioned adjustment should be applied only to the sets whose serial numbers are 1888 and after. For the sets whose serial numbers are 1887 and before, perform the adjustment according to directions in the parentheses. 1) Connect the oscilloscope to TP3 with external trigger from TP8 (— TRIG, []] [] NOR). 2) Pick up the Philips pattern and record it on the beginning portion of recording tape. REC MODE SW: TL24H (TL72H) 3) Adjust R106 so that T = 15.0 msec while adjust R111 so that A = 3.7 msec. 4) Secondly, set the REC MODE switch to TL72H and perform the same recording as the the above. 5) Adjust R126 so that A = 3.4 msec. 6) Thirdly, set the REC MODE switch to TL24H(TL72H) again, and record the Philips pattern and play it back in the SP mode. 7) Set the AFC switch of the TV monitor to NORMAL while the PULSE CROSS switch to ON. Observe the monitor to confirm that it has symmetirc horizontal fluctuation in the edge portions of the both sides. 8) If not, it deflects rightward by increasing A, while deflects leftward by decreasing A. Note: It tends to deflect rightward as a whole. 9) Set Record in the same manner with the REC MODE switch set to TL24(TL72H), and play it back in the SP mode. 10) Repeat the above steps 7) and 8). Note: Unless there is particular skew observed in the picture, do not disturb the setting of these VRs. Different skew appears owing to AFC of TV monitor used.



No.	Item	Check Point	Adjustment Parts	Signal	Mode	Description
10	SP mode REC/PB color level adjustment	TP307 🔘 🗓	a = R355 Q4	MHVE-2	PB REC → PB (SP)	1) Play back the MHVE-2. 2) Adjust the TRACKING control to maximize the level of the waveform, and assume that the level of a channel having the larger waveform is 'a' as shown in the figure (1:1 probe used). 3) If the level 'a' is set for 5.0 scale divisions on the oscilloscope screen, confirm that the smaller level 'b' is more than 3.5 scale divisions (channel difference is 3 dB). Note: Leave the oscilloscope's VR as it was set for the above step. 4) Press the both of the TRACKING buttons (+, —) simultaneously for tracking preset. 5) Record the color bar signal and play it back to confirm the waveform. If correlation between the waveforms of two channels is the same as that of the step 3), proceed to do the adjustment of the step 6) below. On the other hand, if the correlation is contrary to the above step 3), proceed to do the adjustment of the step 7). 6) In case the correlation between the waveforms is the same as that of the step 3): Adjust R355 so that the level of the larger channel is 5.0 scale divisions (0 dB) to the level 'a' (5.0 scale divisions). 7) In case the correlation between the waveforms is contrary to that of the step 3): Adjust R355 so that the level of the larger channel satisfies the value in accordance with the table on the left. 8) In the same manner as in the step 3) above, confirm that the level of the smaller channel is more than 3.5 scale divisions if the level of the larger channel is 5.0 scale divisions. If the correlation of channel difference between the playback levels of the alignment tape and self-recorded tape is contrary, confirm that the channel difference between the two playback levels is within 3 dB. 9) Return the oscilloscope's VR to the original setting position. Note: Connect the oscilloscope to TP7 (D. FF) ①[5] for external trigger.

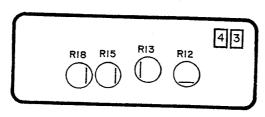
No.	Item	Check Point	Adjustment Parts	Signal	Mode	Description
	LP mode REC/PB color level adjustment	TP307 0 1	. a =	MH-2L (Color bar)	PB	 Play back the color bar segment of the alignment tape MH-2L. Connect the oscilloscope to TP307 (with 1: 1 probe used). Adjust the TRACKING control to maximize the waveform, and assume that the level of a channel having the larger waveform is 'a' as shown in the figure (measured by respective average values). If the level 'a' is set for 5.0 scale divisions on the oscilloscope screen, confirm that the smaller level 'b' is more than 3.5 scale divisions (channel difference is 3 dB). Press the both of the TRACKING buttons (+, -) simultaneously for tracking preset. Change the initial switch setting as follows.
		TP307 [0] [1]	R353 [0]4]	Color bar	1	REC MODE SW: LP 7) Record the color bar signal and play it back to confirm the waveform. If correlation between the waveforms of two channels is the same as that of the step 4), proceed to do the adjustment of the step 8) below. On the other hand, if the correlation is contrary to the above step 4), proceed to do the adjustment of the step 9). 8) In case the correlation between the waveforms is the same as that of the step 4): Adjust R353 so that the level of the larger channel is 5.0 scale divisions (0 dB) to the level 'a' (5.0 scale divisions). 9) In case the correlation between the waveforms is contrary to that of the step 4): Adjust R353 so that the level of the larger channel satisfies the value in accordance with the table on the left. 10) In the same manner as in the step 4) above, confirm that the level of the smaller channel is more than 3.5 scale divisions if the level of the larger channel is 5.0 scale divisions. If the correlation of channel difference between the playback levels of the alignment tape and self-recoreded tape is contrary, confirm that the channel difference between the two playback levels is within 3 dB. 1) Return the oscilloscope's VR to the original setting position. Note: Connect the oscilloscope to TP7 (D. FF) ① 5 for external trigger.

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Description
12	PB Y level adj.	VIDEO OUT	R91 014	Color bar	REC → PB (SP)	 In the SP mode, record the color bar signal inputted through the VIDEO IN and play it back. Connect the oscilloscope to the VIDEO OUT with 75-ohm terminator and adjust R91 so that the output level is 1.0 Vp-p.
13	Sharpness preset adj.	TP24 0 [4]	R42 04	B/W sweep	EE (SP)	 Input the B/W sweep signal to the VIDEO IN in the SP mode and set the deck to EE. Connect the oscilloscope to TP24, and short-circuit between the emitter and collector of Q17 of the MAIN board with a shorting lead. Take note of the frequency response of the 2 MHz signal. Remove the shorting lead. Adjust R42 to obtain the same signal level as that taken note of in the above step 3). Note: Perform the asjustments with the SHARP-NESS VR set at the center position.
14	SP video frequency response	VIDEO OUT		B/W sweep Color sweep	REC (SP) PB (SP) REC (SP) PB (SP)	 Connect the oscilloscope's probe to the VIDEO OUT with 75-ohm terminator. Record the signal and play it back both in the SP mode. Confirm that the SHARPNESS control is set at the center position. Perform measurement based on the channel having the higher level. When the 100 kHz level is set for 5.0 scale divisions on the oscilloscope, adjust the 2.0 MHz level to be 4.5 scale divisions by R130. At that time, confirm that the level difference between channels is within 2 dB. Record the color sweep signal and play it back both in the SP mode. Measure in the same channel as the step 3). When the 100 kHz level is set for 5.0 scale divisions, confirm that the 2.0 MHz level is 3.9 to 6.0 scale divisions. Note: Measure the frequency response by the center of fine noise outside the noise that is on the 2 MHz marker and has clear contour.

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Description
15	LP video frequency response	VIDEO OUT	R131 43	B/W sweep	REC (LP) ↓ PB (LP)	1) Record the B/W sweep signal and Play it back both in the LP mode. Confirm that the SHARPNESS control on the front panel is set at the center position. 2) Perform measurement based on the channel whose level is higher than the other. When the 100 kHz level is set for 5.0 scale divisions on the oscilloscope, adjust the 2.0 MHz level to be 3.5 scale divisions by R 131. At that time, level difference between the channels must be within 2 dB.
		VIDEO OUT	<u>-</u>	Color sweep	REC (LP) ↓ PB (LP)	 3) Record the color sweep signal and Play it back both in the LP mode. 4) Measure in the same channel as the step 2). 5) When the 100 kHz level is set for 5.0 scale divisions on the oscilloscope, confirm that the 2.0 MHz level is 2.8 to 4.5 scale divisions. 6) Again confirm that the SP video frequency response with the B/W sweep signal is correct.
16	APC error phase TP305 — TP328 — (7.8 kHz	TP305 TP328	Color Burst	Color bar Signal	REC (SP) ↓ PB (SP)	 Connect one channel of a dual trace oscilloscope to TP305 while the other channel to TP328. Trigger the oscilloscope external (— slope) with the signal from TP12 (H. SYNC). (oscilloscope: CHOP MODE) Adjust T301 to position the zero-cross 30 μsec ± 3 μsec from the center of the burst signal as shown in the figure. Note: For the above procedure, use a cermic adjusting tool.
17	0.5H delayed video signal Adjust to		R9 [0] [4] (IC6 Module) fluctuation of the w. OSCOPE SWEEP RAN 2 µsec		REC (LP) ↓ PB (LP) ↓ STILL	 Connect the oscilloscope to the VIDEO OUT with 75-ohm terminator. Record the color bar signal and play it back both in the LP mode. TRACKING SW: PRESET In the LP Still mode, adjust R9 (inside IC6 Module) not to double the waveform. (Adjust the waveform so that it does not double and has smooth outline. Particularly for the waveform inside the dotted line, set the oscilloscope to 50 mV, 2 μsec for measurement.)

No.	ltem	Check Point	Adjustment Parts	Signal	Mode	Description
18	0.25H delayed video signal	VIDEO OUT (75-ohm terminated)	R27 (0)(4)	20T pulse	REC (LP) PB (LP) \$TILL	 Connect the oscilloscope to the VIDEO OUT with 75-ohm terminator. Record the signal and play it back both in the LP mode. Set to the Still mode. Reduce the 0.25H signal level to be 90% approx. by R27. Adjust R163 to maximize the signal level turned down in the step 3). Adjust R27 to coincide the VIDEO OUT signal with that of the 0.25H delayed signal. Confirm no flickering. If observed, repeat the adjustments of the 0.5H delayed video signal and 0.25H delayed video signal.

3.7 PRE/REC CIRCUIT



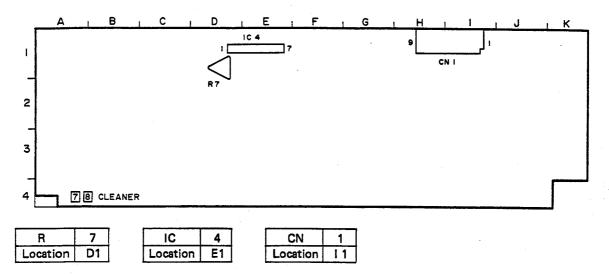
No. Item	Check Point	Adjustment Parts	Signal	Mode	Description
Video head resonance Q (quality factor)	& (SP mode) TP3 4 3	R18 4 3 R15 4 3 R13 4 3 R12 4 3	RF sweeper	EE (SP)	Note: (1) This adjustment is required only after replaing the upper drum (video heads). (2) Connect ground of probe (oscillosope) to
Hole A	Hole A side Hole B side Hole B side Hole A side	TP4 R TP4 R TP3 R TP3 R TP3 R Hole B	R (Q) Fo 118 C64 115 C63 13 C62 12 C61 DRUM ASS' of Video cass	Coil)	TP1 (GND) of the PRE/REC board. (3) A drum assembly is supported on the decibecause of rotation. 1) Insert a VHS tape and set for the EE mod (VHS-SP mode). 2) Connect an oscilloscope to TP4 of the PRE REC board. Supply a sweeper generator out put to adjustment jig as shown in the figure then adjust the sweeper generator gain so that the waveform does not distort at TP4. 3) Trigger the oscilloscope externally with the signal from trigger output (VD) of the sweeper generator. 4) Use the control of the oscilloscope to position the 1 MHz region at graduation 3 of the oscilloscope. 5) Adjust R11, C64 to position the 5.5 MHz portion at 6 of the oscilloscope graduation as shown in the figure. 6) In the same manner, adjust R15, C63 for CH-2 (SP). To change CH-1 and CH-2 of the drum assy with each other, repeat Play and Stop operations to switch the drum FF since it activates CH-1 or CH-2 according to the timing. 7) Connect the oscilloscope's probe to TP3, and adjust R13, C62 (LP CH-1) and R12, C61 (LP CH-2) for the LP mode in the same manner as the above steps 1) through 6) for the SP mode. Note: In the quality factor adjustment in the condition that a: b = 3:6, if there occurs inversion, etc., change the condition so that a: b = 3:5 and do the adjustment again.

3.8 TDG/TIMER CIRCUIT

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Description
1	On-Screen position	VIDEO OUT TV monitor VIDEO OUT (75-ohm terminated)	TO BRIGHT VR	Color bar	E-E	 Connect the TV monitor to the VIDEO OUT terminal. Set the ON SCREEN switch on the front panel to ON. Move the on screen display to the rightmost position in the screen while pressing the ON SCREEN POSITION switch on the front panel. Adjust C6 to position colon between the hour and minute indications on the boundary line between red and magenta of the color bars while observing the TV monitor. While turning the ON SCREEN BRIGHTNESS control on the front panel, confirm that the brightness of the display changes as the VR is turned. After the confirmation, make sure to reset the BRIGHTNESS VR to the center position.
2	TDG clock	TP4 7 9 ↓	C12 7 9	_	E-E	Disconnect the AC plug from the outlet. Externally supply 5 V DC to the plus (+)
	adjustment	Frequency counter	CK: 2048.000 ± 0	0.001 Hz		terminal (upper left) of the battery case with grounding to its minus (—) terminal (loweright). 3) Shortcircuit between TP1 and GND with the shorting lead shown below. 4) Shortcircuit between wire of TP2 and GND with the shorting lead to reset the time. 5) Adjust C12 to obtain a frequency of 2048.000 ± 0.001 Hz at TP2. (Cycle check 488.2 µs).

3.9 CLEANER CIRCUIT

• CLEANER board (Parts side)



No.	Item	Check Point	Adjustment Parts	Signal	Mode	Description
1	Solenoid drive time adjustment	IC4 pin 6	R7	-	PLAY/ STOP	1) Connect an oscilloscope to pin 6 of IC4 and adjust R7 so that pulse width "a" becomes 1.0-1.2 sec as shown in the figure.
		IC4-€	SOLENOID ON a a a = 1.0 ~1.2 sec			

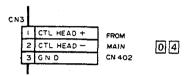
SECTION 4 DIAGRAMS AND CIRCUIT BOARDS

■ FOREWORD

1. Expression of connector

Connector is expressed in the two ways.

1) The following illustrates "CN3 pins 1, 2 and 3".



2) The following illustrates "CN5 pins 1 and 2".



2. Expression of wirring

As the following circuit diagram is divided to print on some sheets, such an indication as the following is found in the case the wiring extends over two or more divided sections.

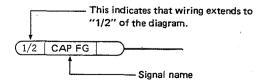
1) Circuit diagram divided into two or more sections:

Board No.	Board Name	Circuit Name
04	MAIN	Y Section
		COLOR Section
. 1		AUDIO Section
06	TIME LAPSE SERVO	1/2 Section
ĺ		2/2 Section
07	MECHACON	2/1 Section
		2/2 Section
43	PRE/REC	2/1 Section
		2/2 Section

2) Indication of wiring which extends to another section:

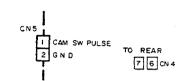
(Example)

On the "2/2" diagram of MECHACON board, such a indication as the following is found on the CAP FG signal line.



In the above case, the end of the wiring is connected to the "1/2-CAP FG" on the 1st section of the diagram. 3. Wiring of connector

(Example)



In the above example, CN5 is connected with CN4 on 7 6 REAR board.

4. Signal flow on the diagram

The following arrow marks indicate the specified signal paths respectively.

: RECORDING or EE SIGNAL PATH

□ : PLAY BACK SIGNAL PATH

: REC/PLAY SIGNAL PATH

5. Measurement of voltage and waveform

Voitage

: Measured by digital voltmeter in REC mode. Where voltages differ between recording and playback, the voltage during playback is shown in parentheses.

Waveform: Waveforms (VIDEO System) are measured with a color bar during recording and playback. Waveforms (AUDIO System) are measured with 1 kHz (-8 dBs) during recording and palyback.

6. Unit of value

Unless otherwise specified:

- a. Resistance is in Ω (1/6 W)
- b. Capacitance in μ F.
- c. Inductance in µH.
- d. Diodes are 1SS133.
- e. Screened parts (in) are important for safety assurance. When replacing them, use specified parts.

4.1 KEY TO ABBREVIATIONS

ADD : Adder ADC Dightal to Analog Converter ADD : Analog to Digital Converter DD Direct Drive ADU : Adjustment DEC Decoder ADUB : Audio Dubbing DEMOD Demodulator AE : Automatic Edition Function DEV Deviation AFC : Automatic Frequency Control DFS : Deviation AFT : Automatic Frequency Control DFS : Durble Trans AH : Audio Head DISCR Descriminator AL : Automatic Evel Control DISCR Descriminator AL : Automatic Evel Control DISCR Descriminator ALM : Automatic Evel Control DRIM FF Drum Flip Flep AMP : Analogital Edition Function DRIM FF Drum Flip Flep AMP : Automatic Evel Control DRIM FF Drum Flip Flep AMP : Automatic Evel Control EE Electric Data Processing APC : Automatic Phase Control EF Electric Data Processing ASEM	Α	ACC	: Automatic Color Control	D	D	: Drum
ADC : Analog to Digital Converter DD : Direct Drive ADUB : Audio Dubbing DEC Decoder AEE : Automatic Edition Function DET Detector AFE : Automatic Edition Function DEV Deviation AFC : Automatic Freuency Control DFR Drum Free RUN STOP AFT : Automatic Gain Control DISCR Discriminator AH : Audio Head DIC SER Discriminator ALC : Automatic Level Control DISCR : Discriminator ALC : Automatic Level Control DRUM Fr Drum Fite Plop ALC : Automatic Level Control DRUM Fr Drum Fite Plop ALC : Automatic Level Control E E Edit, Erase AMP : Amplifier E Edit, Erase ANT : Automatic Automatic Phase Control E E Edit, Erase ASSEM : Assembly EMG : Emphasis ATT : Attenuator EF : Electric to Electron EF AUX	• •		: Adder		DAC	: Dightal to Analog Converter
A DUB			: Analog to Digital Converter		DD	
A DUB Audio Dubbing DEMOD Demodulator AEF Automatic Edition Function DET Detector AFC Automatic Frequency Control DFR Deviation AFC Automatic Fier Tuning DIFT RANS Dum Free RUN STOP AFT Automatic Gain Control DISCR Discriminator AH Automatic Level Control DU Depotition ALC Alter Loading DOC Dropout Compensator ALC Automatic Level Control DUB Dubbing ALM Alarm Amplifier EE Electronic Data Processing AMP Amplifier EE Electronic Data Processing ANT Assembly EE Electronic Data Processing ASSEM Assembly EMPHA Emphasis AUX Automatic Plase Control EF Emitter-Follower AUX Automatic Plase Control EF Emitter-Follower ASSEM Assembly EMP EMPHA Emphasis AUX Autiliary			-		DEC	
AE			•			: Demodulator
AFE : Automatic Edition Function DEV Deviation AFT : Automatic Firequency Control DFR : Drum Free RUN STOP AFT : Automatic Gine Tuning DFR : Drum Free RUN STOP AFT : Automatic Gine Control DLSCR Discriminator AH : Audionatic Level Control DUB Debay Line ALC : Automatic Level Control DRUM FF Drum Fip Flop AM : Amplitide DUB : Dubbing AMP : Amplitide EE Electronic Data Processing APC : Average Fleture Level EF Electronic Data Processing APL : Average Fleture Level EF Electronic Data Processing ASSEM : Assembly EMPHA Emphasis ASSEM : Assembly EMPHA Emphasis AUX : Auxiliary EN EMPHA Emphasis AUX : Auxiliary EN EN Enoder BAL : Blainer EN EXT Extraction BEG			•			
AFC Automatic Frequency Control DFRS Dum Free RUN STOP AFC Automatic Fine Tuning DIF TRANS Differential Transformer AGC Automatic Gain Control DL Delay Line AL Automatic Level Control DC Dropout Compensator ALM Alamplitude Modulation AM Amplitude Modulation E AMP Amplitude Modulation E E E Edit, Erase ANT Antenna E EDP Electric of Electric APC Automatic Phase Control EE Electric of Electric APL Average Picture Level EMF Electric of Electric ASSEM Assembly EMG Empress ASSEM Assembly EMG Empress AUX Auxiliary EMG Empress AUX Auxiliary ESNS End Sensor BA B Brake EXP Example BAT Battery EXP Example BC Beginning F						
AFT : Automatic Faine Tuning DIF TRANS : Differential Transformer AH : Audio Head DL : Discriminator AL : After Loading DC : Discriminator ALC : Automatic Level Control DRUM FF : Drum Flip Flop AM : Amplifier BE E : Edit, Frase AMP : Amplifier BE DP : Electronic Data Processing APC : Automatic Phase Control EP : Electronic Data Processing APC : Automatic Phase Control EP : Electronic Data Processing APC : Automatic Phase Control EP : Electronic Data Processing APC : Automatic Phase Control EP : Emitter-Follower ASSEM : Assembly EMPHA : Emphasis ASTY : Assembly EMPHA : Emphasis AUTO : Auxiliary EMC : Emoder AUT : Auxiliary ES : ENC : Emable BAL : Blainer : Black EXP : Expander </th <th></th> <th></th> <th>. ,</th> <th></th> <th></th> <th></th>			. ,			
AGC : Automatic Gain Control DISCR : Discriminator AL : After Loading DC : Dropout Compensator AL : Automatic Level Control DRUM FF : Drum Flip Flop ALM : Automatic Level Control E E : Edit, Erase AMP : Amplitude Modulation E E : Edit, Erase ANT : Antenna EDP : Electronic Data Processing APC : Automatic Phase Control E.F : Electronic Data Processing APC : Automatic Phase Control EF : Emitter-Follower ASSEM : Ausembly EMP : Emergency ASSEM : Ausembly EMG : Emergency AUTO : Automatic ENC : Encoder AUX : Auxiliary ESNS : End Sensor AUX : Auxiliary EXP : Expander BAL : Batter EXT : External BAT : Batter EXT : External BAT : Birary Coded Decimal F						
AH						
ALC						
ALC : Automatic Level Control ALM : Alarm AMP : Amplifued Modulation AMP : Amplifuer ANT : Antenna APC : Automatic Phase Control APL : Average Picture Level ASSEM : Assembly ASSEM : Assembly ASSEM : Assembly ATT : Attenuator AUTO : Automatic AU						•
ALM Amelitude Modulation AMP : Amplifuer ANT : Antenna APC : Automatic Phase Control APL : Average Picture Level ASSEM : Assembly ASS'Y : Assembly ASS'Y : Assembly ATT : Attenuator AUT : Automatic AUX : Auxiliary AUX : Balance BATT : Battery BCO : Binary Coded Decimal BEG : Beginning BFP : Burst Flag Pulse BIT : Binary Digit BIK : Bilack BUL : Bilue BNC : Bayonet connector BPF : Bandpass Filter BNC : Bayonet connector BPF : Bandpass Filter BNC : Brightness B, C : C eramic CC : Ceramic CASS : Cassette CF : C eramic Filter, color Frame CC : Cassetta compartment CHROMA : Chrominance CLR : Clear CMD : Command CNT : Count, Counter CNT : Count, Counter CNT : Comparator LEC : Comparator CONT : Comparator CONT : Comparator CONT : Comparator LEC : Comparator LEC : Ciesar INS : Insert CONT : Comparator LEC : Comparator LEC : Light Emits Injoined LEC : Light Emits Injoined CONT : Comparator LEC : Comparator LEC : Light Emits Injoined LEC : Light Emits Injoined CONT : Comparator LEC : Comparator LEC : Light Emits Injoined LEC : Li			3			·
AMP : Amplitude Modulation AMP : Amplifier ANT : Antenia APC : Automatic Phase Control APL : Average Picture Level ASSEM : Assembly ASSY : Assembly ASSY : Assembly AST : Attenuator AUTO : Automatic Phase Control AUTO : Automatic Phase Control AUTO : Automatic AUTO : Audio B B : Brake BAL : Balance BAL : Balance BAL : Balance BAT : Battery BCD : Binary Coded Decimal BEG : Beginning BFP : Bunt Flag Pulse BFP : Bunt Flag Pulse BFF : Bandsass Filter BFF : Bandsass Filter BRN : Bisue BNC : Bayonet connector BFF : Bandsass Filter BRN : Brown BRT : Brightness BRN : Brightness BRN : Brown BRT : Brightness BRN : Brightness BRN : Brown BRT : Brightness BRN : Brown BRT : Brightness BRN : Brown BRT : Brightness BRN : Brightness BRN : Brown BRT : Brightnes BRN : Brown BRT : Brightness BRN : Brown BRT : Brown BRT : Brown						
AMP Anotifier E E E E Edit, Erase ANT : Antenna APC : Automatic Phase Control APL : Average Picture Level			- •		DOR	: Dubbing
ANT : Antenna			•	E	E	: Edit, Erase
ANT Antenna APC : Automatic Phase Control APL : Average Picture Level ASSEM : Assembly ASS'Y : Assembly ASS'Y : Assembly ASS'Y : Assembly ATT : Attenuator AUT : Automatic AUX : Auxiliary Aux			·		EDP	: Electronic Data Processing
APC Automatic Phase Control APL Average Picture Level ASSEM : Assembly ASSEY : Assembly ASS'Y : Assembly ATT : Attenuator		* *				•
APL Average Picture Level ASSEM : Assembly ASSY : Assembly ASSY : Assembly AT : Attenuator AUTO : Automatic AUX : Auxiliary AUD : Audio B : Equalizer AUX : Auxiliary AUD : Audio B : Equalizer AUX : Auxiliary AUD : Audio B : Equalizer B : Ff : Fast Forward B						
ASSEMY Assembly ASSY : Assembly ATT : Attenuator AUT : Auttomatic AUX : Auxillary AUD : Audio B B : Brake BAL : Balance BATT : Battery BCD : Binary Coded Decimal BEG : Beginning BEF : Burst Flag Pulse BIT : Binary Digit BI					- :	
ASS Y Assembly ATT : Attenuator AUTO : Automatic AUX : Auxiliary AUD : Audio : Audio : EN : Equalizer AUD : Audio : EN : Essence B : B : Brake B : Brake B : Balance B : Battery B : Both : Battery B : Ff : External B : Ftell : Erequency B : Frequency Generator F : Ftell : Frequency Generator F : Ftell : F			·			•
AUTO : Automatic AUX : Auxiliary AUD : Audio B B : Brake BAL : Balance BATT : Battery BEG : Beginning BEG : Beginning BEG : Beginning BEG : Beginning BEF : Burst Flag Pulse BLK : Black BLU : Blue BNC : Bayonet connector BPF : Bandpass Filter BRN : Brown BRT : Brightness BRN : Black BRN : Brown BRT : Brightness BRN : Brown BRN : Brown BRT : Brightness BRN : Brown BRN : Brightness BRN : Brown BRN :		ASS'Y	: Assembly			· .
AUTO : Automatic AUX : Auxiliary AUD : Audio : ESNS : End Sensor EXP : Expander EXP : Frequency Generator Filipflop FM : Frequency Generator FM : Frequency for index of the particular of the parti		ATT	: Attenuator			
AUX : Auxiliary AUD : Audio : Audio : EXP : Expander B B : Brake : EXT : External B BAL : Balance : EXT : External BAL : Balance : EXT : External BATT : Battery : F FE : Full Erase BATT : Battery : FF FE : Fast Forward BEG : Beginning : FIpfiop BFP : Burst Flag Pulse : FG : Frequency Generator BIT : Binary Digit : FM : Frequency Modulation BLK : Black : FMA : FMA udio BLU : Blue : FREQ : Frequency To Voltage Converter BPF : Bandpass Filter : FWD : Forward BRN : Brown : G GDL : Grass Delay Line BRT : Brightness : GEN LOCK : Generator Lock BAW : Black and White : GRN : Ground BAW : Black and White : GRN : Ground CAP : Capstan : H H : High, Horizontal CAP : Cassette compartment CF : High pass Filter CC : Cassette compartment CC : Cassette compartment CC : Cassette compartment CC : Cassette compartment CLK : Clock INH : Inhibit CLK : Clock INH : Inhibit CLK : Clock INH : Inhibit CNT : Count, Counter INV : Inverter CONV : Conwerer I/O : Input/Output COMP : Common LB : Low Band COMP : Comparator COMP : Composite COMP COMP : Composite COMP COMP COMP COMP COMP COMP COMP COMP		AUTO	: Automatic			
AUD : Audio B B : Brake		AUX	: Auxiliary			
B B		AUD	: Audio			
BAL : Balance BATT : Battery BCD : Birary Coded Decimal BEG : Beginning BFP : Burst Flag Pulse BIT : Binary Digit BLK : Black BLU : Blue BNC : Bayonet connector BPF : Bayonet connector BPF : Bandpass Filter BNR : Brown BRN : Brown BRN : Brown BRN : Brightness B. SOL : Brake Solenoid B/W : Black and White CC : Capstan CASS : Cassette CF : Ceramic Filter, color Frame CC : Cassette compartment CC : Chip Enable CH : Channel CHROMA : Chrominance CLK : Clock CLR : Cloch CCN : Command CLR : Cloch CCN : Command CCN : Command CCN : Command CCN : Comparator CCM : Comparator CCM : Comparator CCM : Composite CCM : Connector CC	R	R	· Brake		_	•
BATT : Battery BCD : Binary Coded Decimal BEG : Beginning BFP : Burst Flag Pulse BIT : Binary Digit BLK : Black BLU : Blue BNC : Bayonet connector BPF : Bandpass Filter BRT : Brightness BRT : Brightness BRT : Brightness BRT : Brightness BRT : Black Solenoid BRW : Black and White BRT : Caramic CAP : Capstan CASS : Cassette CF : Ceramic Filter, color Frame CC : Cassette compartment CC : Chip Enable CH : Channel CHROMA : Chrominance CLK : Clock CLR : Count, Counter CON : Companator COM : Compensation CON : Connector CT : Ceramic Frap CC : Ceramic Clock CLR : Cl		=	·		EAT	: External
BCD : Binary Coded Decimal BEG : Beginning BFP : Burst Flag Pulse BIT : Binary Digit FM : Frequency Generator BLK : Black FM : FM : Frequency Modulation BLK : Blue FM : FREQ : Frequency BNC : Bayonet connector BPF : Bardpass Filter BRN : Brown BRT : Brightness BRN : Brightness BRN : Brake Solenoid B/W : Black and White GRN : Green CC : Ceramic CASS : Cassette CC : Ceramic GRY : Gray CC : Cassette compartment CC : Cassette compartment CC : Chip Enable IFF : Intermediate Frequency CHROMA : Chrominance CHROMA : Chrominance CLK : Clock INS : Insert CMD : Command CNT : Count, Counter CND : Command COND : Compensation COND : Compensation COND : Connector COND : Compensation COND : Connector COND : Compensation COND : Connector COND : Connector COND : Compensation COND : Connector COND : Compensation COND : Compensation CCT : Ceramic Trap CTC : Cresstalk Cancel CTC : Cresstalk Cancel CTC : Cresstalk Cancel COND : Consector COND : Connector CT : Ceramic Trap LIM : Limiter CTC : Cresstalk Cancel CTC : Cooloding CTC : Cresstalk Cancel CTC : Cresstalk Cancel CTC : Cresstalk Cancel		_		F	FE	: Full Erase
BEG : Beginning BFP : Burst Flag Pulse BIT : Binary Digit BLK : Black BLU : Blue BNC : Bayonet connector BPF : Bandpass Filter BRN : Brown BRT : Brightness B. SOL : Brake Solenoid B/W : Black and White CAP : Capstan CAS : Cassette CC : Ceramic CC : Ceramic Filter, color Frame CC : Cassette compartment CC : Cassette compartment CC : Channel CHROMA : Chrominance CLK : Clock CLC : Clock CLC : Clock CLC			• •		FF	: Fast Forward
BFP : Burst Flag Pulse BIT : Binary Digit BLK : Black BLU : Blue BNC : Bayonet connector BPF : Bardpass Filter BRN : Brown BRT : Brightness B. SOL : Brake Solenoid B/W : Black and White CAP : Capstan CAP : Capstan CC : Cassette compartment CC : Cassette compartment CC : Chip Enable CC : Channel CC : Channel CC : Channel CC : Channel CC : Chock CC : C			•			Flipflop
BIT : Binary Digit					FG	•
BLK : Black BLU : Blue FREQ : Frequency BNC : Bayonet connector BPF : Bandpass Filter FWD : Forward BRT : Brightness GEN LOCK : Generator Lock BYW : Black and White GRN : Green GRY : Gray C C : Ceramic GRY : Gray CAP : Capstan H H : High, Horizontal CASS : Cassette CF : Ceramic FIIter, color Frame CC : Cassette Compartment CC : Cassette Compartment CC : Cassette Compartment CC : Chip Enable I IFF : Intermediate Frequency CHROMA : Chrominance IND : Indicator CLK : Clock INH : Inhibit CLR : Clear INS : Insert CMD : Count, Counter CMT : Count, Counter CMT : Count, Counter CONV : Converter COMP : Comparator COMP : Comparator COMP : Comparator COMP : Comparator COMP : Compensation CONN : Connector CT : Ceramic Trap CT : CT : Ceramic Trap CT : CT : Crosstalk Cancel CT : Limiter CT : Crosstalk Cancel CT : Cinamic CT : Cinamic CT : Crosstalk Cancel CT : Conamic CT : Crosstalk Cancel CT : Crosstalk Cancel CT : Coloding			·-		FM	
BLU : Blue : Brown : Brightness : Brightness : Brightness : Brightness : Brack Solenoid : GRN Core : Ground : GRN : Green : GRY : Gray :						*
BNC : Bayonet connector BPF : Bandpass Filter BRN : Brown BRT : Brightness B. SOL : Brake Solenoid B/W : Black and White C C : Ceramic CASS : Cassette CF : Ceramic Filter, color Frame CC : Cassette compartment CE : Chip Enable CH : Channel CHROMA : Chrominance CLK : Clock CLR : Clear CMD : Command CNT : Count, Counter CMD : Comparator CONV : Converter COMP : Comparator COMP : Composite COMP : Connector CONN : Connector CONN : Connector CONN : Connector CCT : Ceramic Filter, Color CONN : Connector CCT : Ceramic Filter CCC : Light Emitting Diode COND : Connector CCT : Ceramic Filter CCC : Light Emitting Diode CCCC : Constalk Cancel COND : Connector CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC						· · · · · · · · · · · · ·
BPF : Bandpass Filter BRN : Brown BRT : Brightness B. SOL : Brake Solenoid B. W : Black and White C C : Ceramic CAP : Capstan CC : Ceramic Filter, color Frame CC : Cassette Compartment CC : Chip Enable CC : Ch						
BRN : Brown G G GDL : Grass Delay Line BRT : Brightness GEN LOCK : Generator Lock B. SOL : Brake Solenoid GND : Ground B/W : Black and White GRN : Green CAP : Capstan H H : High, Horizontal CASS : Cassette HG : Hall Generator CCF : Ceramic Filter, color Frame CC : Cassette compartment CC : Cassette compartment CC : Chip Enable I IF : Intermediate Frequency CH : Channel IFT : Intermediate Frequency CH : Channel IND : Indicator CLK : Clock INH : Inhibit CLR : Clear CMD : Command INT : Internal, Interrupt CNT : Count, Counter INV : Inverter CNT : Count, Counter CNT : Conton INV : Inverter CON : Converter CON : Converter CON : Common LB : Low COM : Common COMP : Comparator COMP : Composite Composite Composite Composite Compensation LED : Liquid Crystal Display CT : Ceramic Trap CT : Ceramic Trap LIM : Limiter			-			· · · · · ·
BRT : Brightness			•	_		. i oiwara
B. SOL : Brake Solenoid B/W : Black and White			· - ·	G	GDL	: Grass Delay Line
B/W : Black and White GRN : Green CC : Ceramic GRY : Gray CAP : Capstan H H : High, Horizontal CASS : Cassette HG : Hall Generator CF : Ceramic Filter, color Frame CC : Cassette Compartment CE : Chip Enable IFF : Intermediate Frequency CH : Channel IFF : Intermediate Frequency Transformer CHROMA : Chrominance IND : Indicator CLK : Clock INH : Inhibit CLR : Clear INS : Insert CMD : Command INT : Internal, Interrupt CNT : Count, Counter INV : Inverter CONV : Converter I/O : Input/Output COL : Color L L : Low COM : Composite LE : Loading End CONN : Connector LIN : Linearity CT : Ceramic Trap LIM : Limiter CTC : Crosstalk Cancel LOAD : Loading					GEN LOCK	: Generator Lock
C C : Ceramic GRY : Gray CAP : Capstan H H : High, Horizontal CASS : Cassette CF : Ceramic Filter, color Frame CC : Cassette compartment CE : Chip Enable CH : Channel IFT : Intermediate Frequency CH : Channel IND : Indicator CLK : Clock CLR : Clear INS : Insert CMD : Command INT : Internal, Interrupt CNT : Count, Counter CONV : Converter CONV : Converter COM : Common COM : Common COMP : Comparator COMP : Composite Composite Composite CONN : Connector CONN : Connector CT : Ceramic Trap CT :					GND	: Ground
CAP : Capstan		B/W	: Black and White			: Green
CAP : Capstan	С	С	: Ceramic		GRY	: Gray
CASS : Cassette CF : Ceramic Filter, color Frame CC : Cassette compartment CE : Chip Enable CH : Channel CHROMA : Chrominance CLK : Clock CLR : Clear CMD : Command CNT : Count, Counter CONV : Converter CONV : Converter COM : Common COM : Common COM : Common COM : Common COM : Comparator COM : Comparator COMP : Comparator COMP : Compensation CONN : Connector CONN : Connector CONN : Connector CONN : Consecter CONN : Connector CONN : Consecter CONN : Connector CONN : Connector CONN : Connector CONN : Consecter CONN : Connector CONN : Connector CONN : Connector CONN : Consecter CONN : Consecter CONN : Connector CONN : Consecter CON			: Capstan	н	н	· High Horizontal
CF : Ceramic Filter, color Frame CC : Cassette compartment CE : Chip Enable CH : Channel CHROMA : Chrominance CLK : Clock CLR : Clear CMD : Command CNT : Count, Counter CONV : Converter CONV : Converter COM : Common COM : Common COM : Common COM : Comparator COMP : Comparator COMP : Comparator COMP : Compensation CONN : Connector CONN : Constalk Cancel COND : Condence COND : Constalk Cancel COND : Condence COND : Constalk Cancel COND : Loading		CASS	: Cassette	• • •		
CC : Cassette compartment CE : Chip Enable CH : Channel CHROMA : Chrominance CLK : Clock CLR : Clear CMD : Command CNT : Count, Counter CONV : Converter CONV : Converter COM : Common COM : Common COM : Common COM : Comparator COMP : Comparator COMP : Comparator COMP : Connector CONN : Corosstalk Cancel COMD : Constalk Cancel C		CF	: Ceramic Filter, color Frame			
CE : Chip Enable CH : Channel CHROMA : Chrominance CLK : Clock CLR : Clear CMD : Command CNT : Count, Counter CONV : Converter COM : Common COM : Composite COMP : Connector CONN : Connector CONN : Connector CONN : Corestalk Cancel CONN : Constalk Cancel CONN : Constalk Cancel CONN : Constalk Cancel CONN : Corestalk Cancel CONN : Constalk C			•		пгг	. nigripass ritter
CH : Channel IFT : Intermediate Frequency Transformer CHROMA : Chrominance IND : Indicator IND : Indicator INH : Inhibit INH : Inhibit INS : Insert INS : Insert INT : Internal, Interrupt INT : Internal, Interrupt INV : Inverter INV : Inverter INV : Inverter INV : Input/Output IN			•	l	1F	: Intermediate Frequency
CHROMA : Chrominance IND : Indicator CLK : Clock INH : Inhibit CLR : Clear INS : Insert CMD : Command INT : Internal, Interrupt CNT : Count, Counter INV : Inverter CONV : Converter I/O : Input/Output COL : Color L L : Low COM : Common LB : Low Band COMP : Comparator LCD : Liquid Crystal Display Composite LE : Loading End CONN : Connector LIN : Linearity CT : Ceramic Trap LIM : Limiter CTC : Crosstalk Cancel LOAD : Loading					IFT	: Intermediate Frequency Transformer
CLK : Clock INH : Inhibit CLR : Clear INS : Insert CMD : Command INT : Internal, Interrupt CNT : Count, Counter INV : Inverter CONV : Converter I/O : Input/Output COL : Color L L : Low COM : Common LB : Low Band COMP : Comparator LCD : Liquid Crystal Display Composite LE : Loading End Compensation LED : Light Emitting Diode CONN : Connector LIN : Linearity CT : Ceramic Trap LIM : Limiter CTC : Crosstalk Cancel LOAD : Loading					IND	: Indicator
CLR : Clear INS : Insert CMD : Command INT : Internal, Interrupt CNT : Count, Counter INV : Inverter CONV : Converter I/O : Input/Output COL : Color L L : Low COM : Common LB : Low Band COMP : Comparator LCD : Liquid Crystal Display Composite LE : Loading End Compensation LED : Light Emitting Diode CONN : Connector LIN : Linearity CT : Ceramic Trap LIM : Limiter CTC : Crosstalk Cancel LOAD : Loading					INH	: Inhibit
CMD : Command INT : Internal, Interrupt CNT : Count, Counter CONV : Converter COL : Color COM : Common COMP : Comparator Composite Composite Compensation CONN : Connector CONN : Connector CONN : Cornector CONN					INS	: Insert
CNT : Count, Counter INV : Inverter I/O : Input/Output CONV : Converter I/O : Input/Output COL : Color L L : Low COM : Common LB : Low Band COMP : Comparator LCD : Liquid Crystal Display Composite LE : Loading End Compensation LED : Light Emitting Diode CONN : Connector LIN : Linearity CT : Ceramic Trap LIM : Limiter CTC : Crosstalk Cancel LOAD : Loading					INT	: Internal, Interrupt
CONV : Converter					INV	: Inverter
COL : Color L L : Low COM : Common LB : Low Band COMP : Comparator LCD : Liquid Crystal Display Composite LE : Loading End Compensation LED : Light Emitting Diode CONN : Connector LIN : Linearity CT : Ceramic Trap LIM : Limiter CTC : Crosstalk Cancel LOAD : Loading			•		1/0	: Input/Output
COM : Common LB : Low Band COMP : Comparator						
COMP : Comparator				L		
Composite Compensation CONN : Connector CT : Ceramic Trap CTC : Crosstalk Cancel LE : Loading End LED : Light Emitting Diode LIN : Linearity LIM : Limiter LOAD : Loading						
Compensation LED : Light Emitting Diode CONN : Connector LIN : Linearity CT : Ceramic Trap LIM : Limiter CTC : Crosstalk Cancel LOAD : Loading		COMP	•			· · · · · · · · · · · · · · · · · · ·
CONN : Connector LIN : Linearity CT : Ceramic Trap LIM : Limiter CTC : Crosstalk Cancel LOAD : Loading			•			
CT : Ceramic Trap LIM : Limiter CTC : Crosstalk Cancel LOAD : Loading			•			: Light Emitting Diode
CTC : Crosstalk Cancel LOAD : Loading						: Linearity
071			•			: Limiter
CTL : Control LP : Long Play					LOAD	: Loading
		CTL	: Control		LP	: Long Play

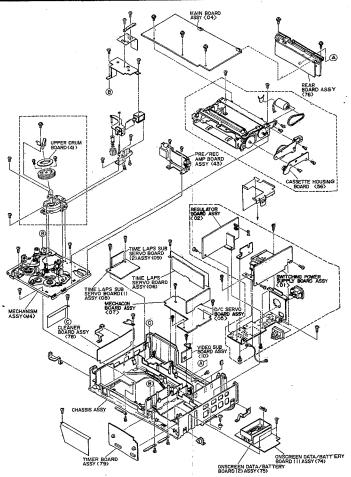
	LPF	: Lowpass Filter
	LT	: Loading Tension
м	MAX	: Maximum
141	MDA	: Motor Drive Amplifier
	MIC	: Microphone
	MIN	: Minimum
	MIX	: Mixer
	MM	: Monostable Multivibrator
	MOD	: Modulator
	MON	: Monitor
	MOS	: Metal Oxide Semkonductor
	MPX	: Multiplexer
	MS MUT	: Mode Select : Muting
R.I		
N	NC	: Noise Cancel : Negative Feedback
	NFB NO	: Normally Open
_		
0	OPAMP	: Operational Amplifier
	OP	: Operation
	ORN	: Orange : Oscillator
_	OSC	
Р	PB	: Playback
	PC	: Photocoupler : Pulse Code Modulation
	PCM PGM	: Program
	PG	: Pulse Generator
	PI .	: Photo Interrupter
	PLL	: Phase Locked Loop
	POS	: Position
	PR	: Pinch Roller
	PREV	: Preview
	PRL	: Preroll
	PU	: Pickup
	PWB	: Printed Wiring Board
Q	Q	: Quality Factor
R	RA	: Resistor Array
		: Random Access
	RAM	: Random Access Memory
	REC	: Recording
	REG	: Regulated
	REV	: Reverse : Rewind
	REW RF	: Radio Frequency
	RST	: Reset
	R/P	: Record/Playback
	RPT	: Repeat
	RT	: Rotary Transformer
	RY	: Relay
S	S	: Search, Servo
	SC	: Subcarrier
	SEAR	: Search
	SEL	: Select
	SENS	: Sensor
	SEP	: Separator
	SF	: Source Follower : Short Fast Forward
	SFF SFWD	: Search Forward
	SI	: Serial In
	SIG	: Signal
	SO	: Serial Out
	= 	

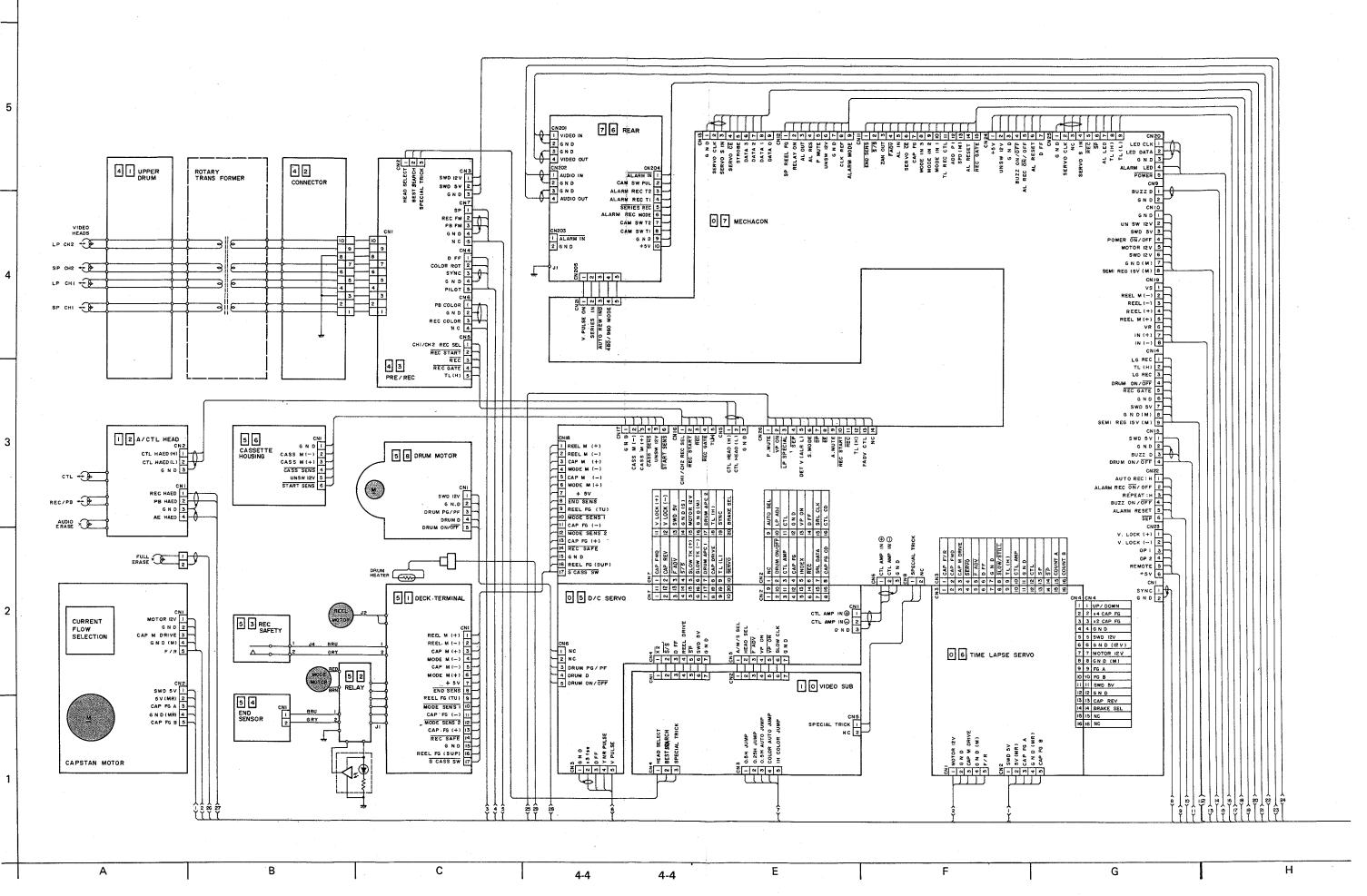
SOL	: Solenoid
sos	: Sound on Sound
SP	: Standard Play
SR	: Supply Reel
SREV	: Search Reverse
SREW	: Short Rewind
SSG	: Sync Signal Generator
STL	: Still
SUP	: Supply
SYNC	: Synchronization
SYSCON	: System control
TBC	: Time Base Corrector
TC	: Tension Control, Time Code
TDG	: Time Date Generator
T. EALM	: Tape End Alarm
TEN	: Tension
TIM	: Timing
TK	: Tracking
TL	: Time Lapse
TREC	: Timer Record
TSW	: Time Switch
TU .	: Take-up
TUR	: Take-up Reel
UNLD	: Unloading
UNREG	: Unregulated
UNSW	: Unswitched
٧	: Video, Vertical
VCO	: Voltage Controlled Oscillator
VD	: Vertical Drive
VXO	: Variable Crystal Oscillator
VLT	: Violet
VSCH	: Variable Search
WHT	: White
wv	: Working Voltage
WARN	: Warning
XTL	: Crystal
Υ	: Luminance
YLW	: Yellow

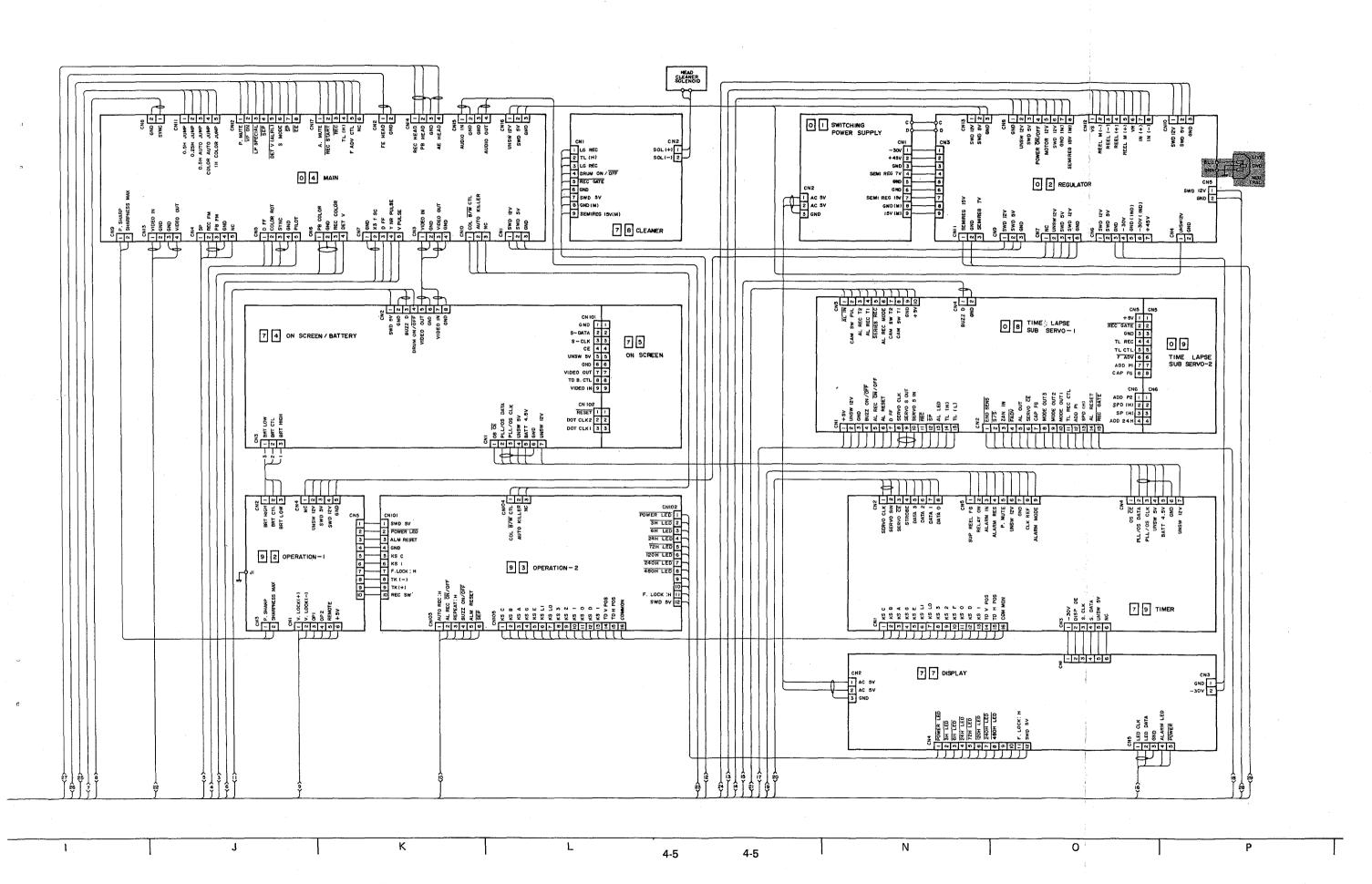
4.2 CIRCUIT BOARD LOCATIONS

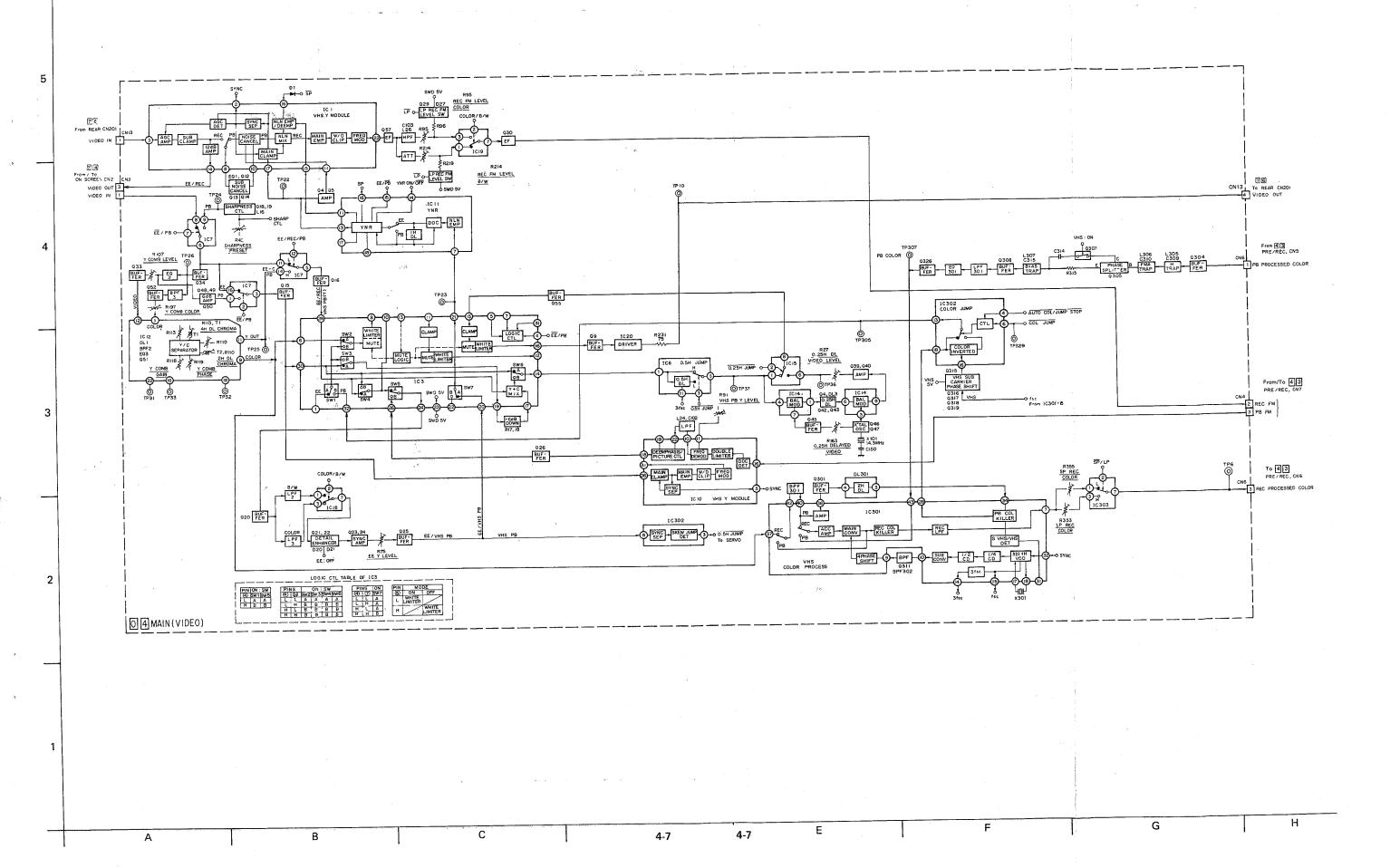
Index to board by kind of diagrams

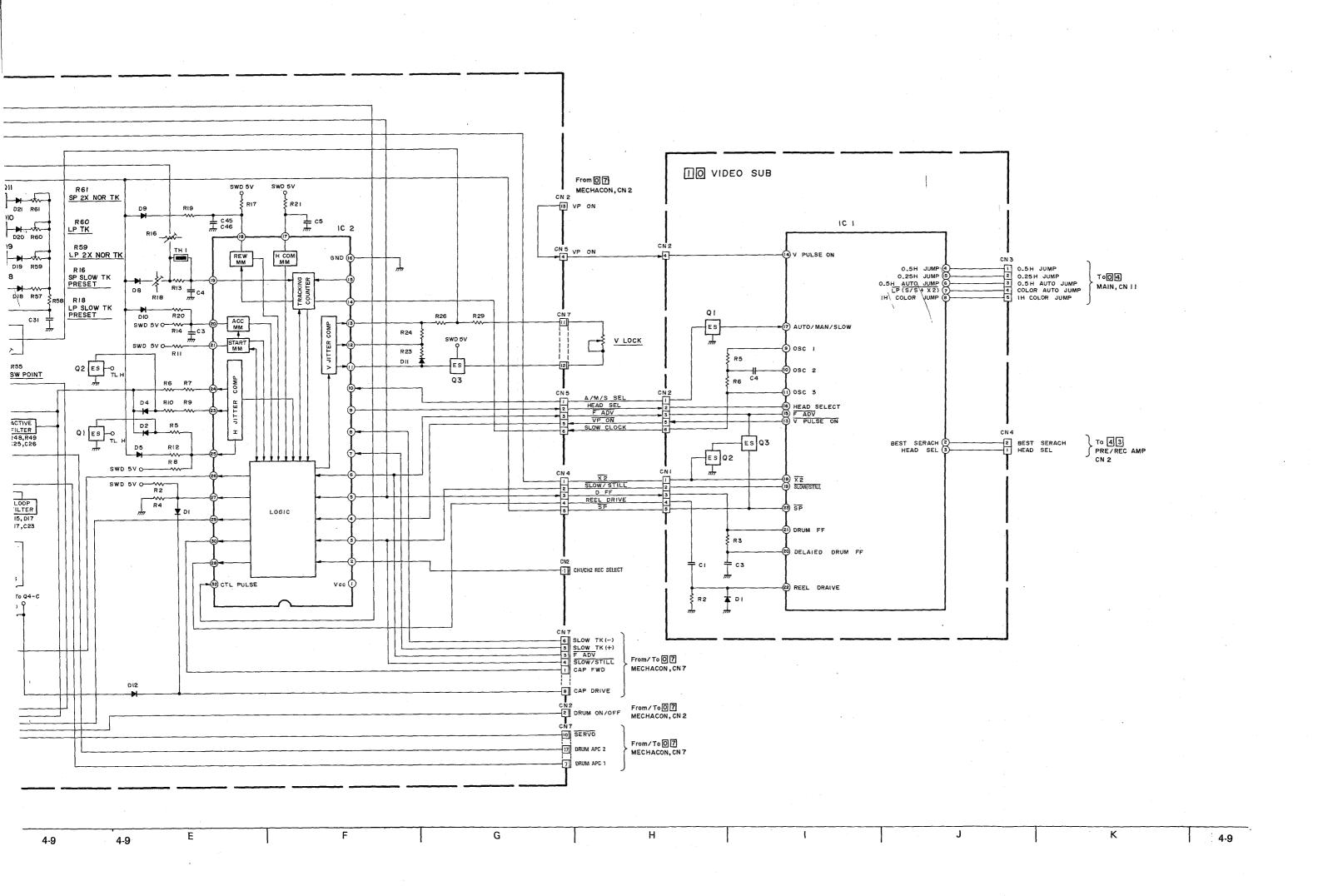
_	Board Name	Page of Diagram				
Board No.		Block diagram	Schematic diagram	Circuit board	Part list	
01 02 04	SWITCHING P.S REGULATOR MAIN	-	4-12 4-12	4-13 4-13	6-6 6-6	
<u>() (+)</u>	<pre>< VIDEO Y SECTION > < VIDEO C SECTION ></pre>	4-6 4-6	4-14 4-15	4-17 4-17	6-8 6-11	
05 06 07 08	< AUDIO SECTION > D/C SERVO TIME LAPSE SERVO MECHACON TIME LAPSE SUB SERVO (1)	4-7 4-9 4-8 4-10	4-16 4-18 4-23, 24 4-25, 26 4-20	4-17 4-19 4-22 4-27 4-21	6-13 6-14 6-15 6-16 6-18	
0 9 1 0 1 2 4 1 4 3	TIME LAPSE SUB SERVO (2) VIDEO SUB A/C HEAD UPPER DRUM VIDEO PRE/REC	4-9 4-7 4-11 4-11	4-20 4-28 - 4-4 4-30, 31	4-21 4-28 4-42 - 4-31	6-19 6-19 6-20 6-20 6-20	
5 1 5 2 5 3 5 4 5 6	DECK TERMINAL RELAY REC SAFETY END SENSOR CASSETTE HOUSING	4-10 4-10 4-10 4-10 4-10	4-43 4-43 4-43 4-43 4-43	4-42 4-42 4-42 4-42 4-42	6-22 6-22 6-22 6-22 6-22	
74 75 76 77	ON SCREEN DATA/BATTERY (1) ON SCREEN DATA/BATTERY (2) REAR DISPLAY CLEANER	- - - - -	4-32 4-32 4-29 4-34 4-36	4-33 4-33 4-29 4-35 4-37	6-22 6-23 6-23 6-23 6-24	
7 9 9 2 9 3	TIMER OPERATION 1 OPERATION 2	- - -	4-38 4-40 4-40	4-39 4-41 4-41	6-24 6-25 6-26	

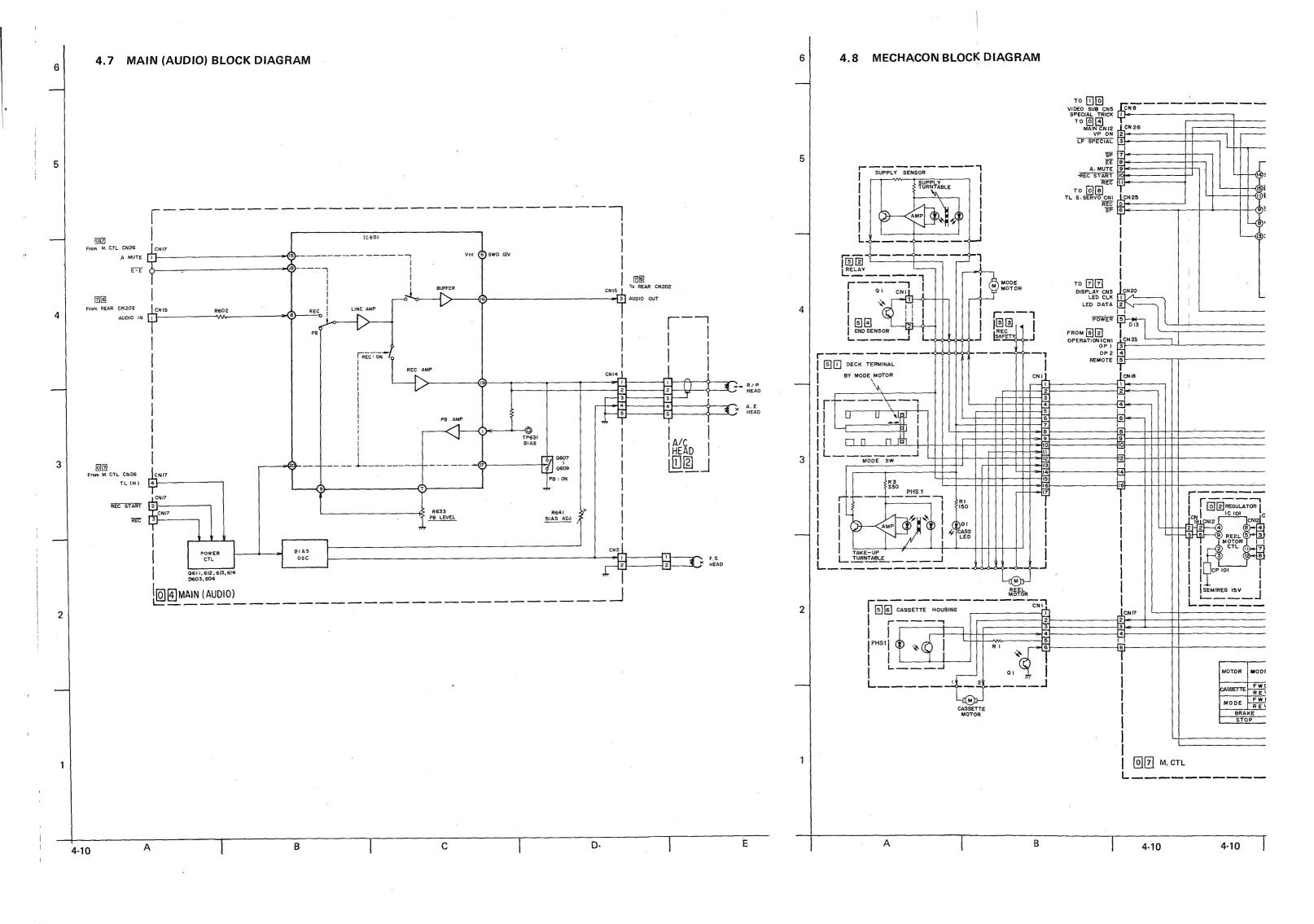


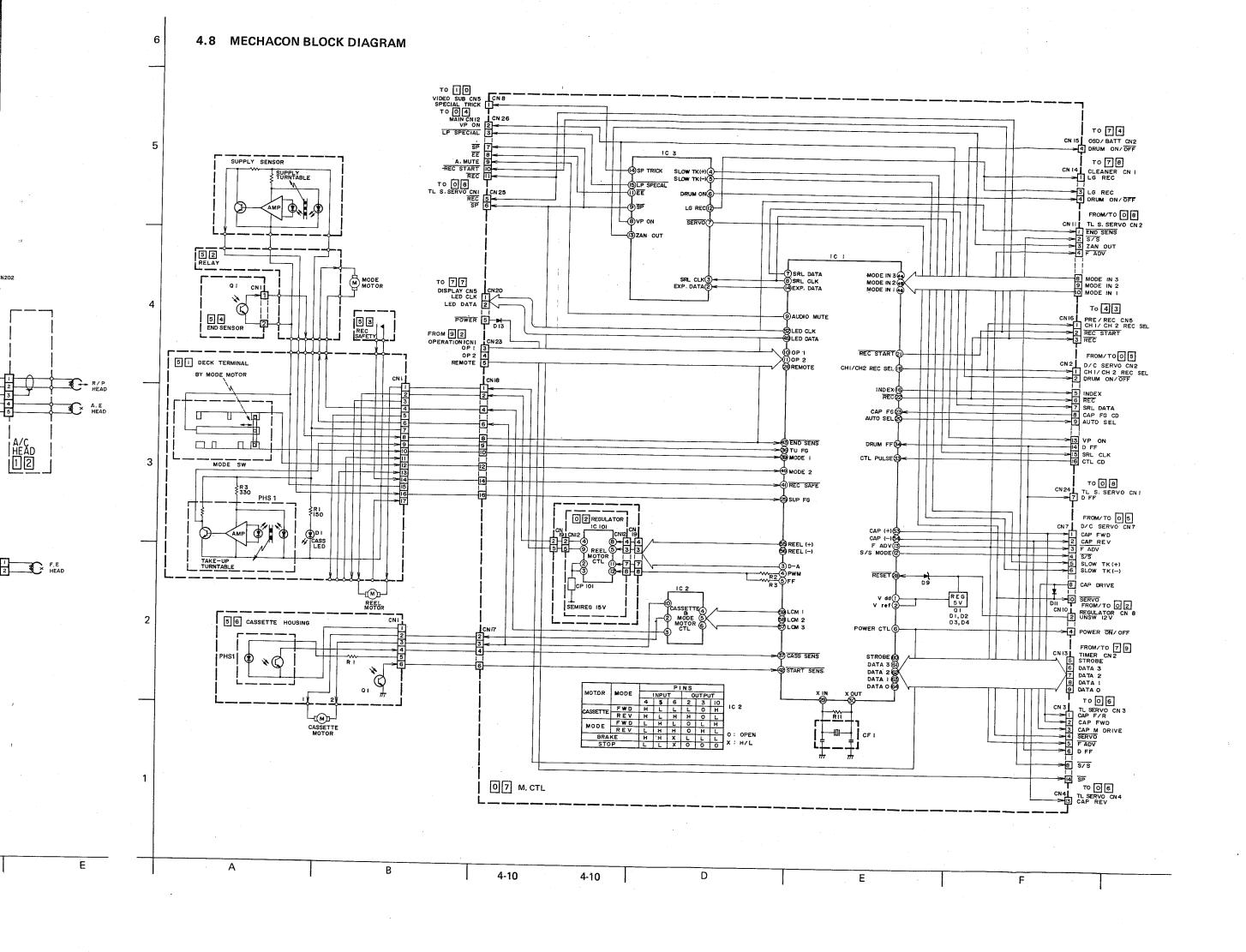






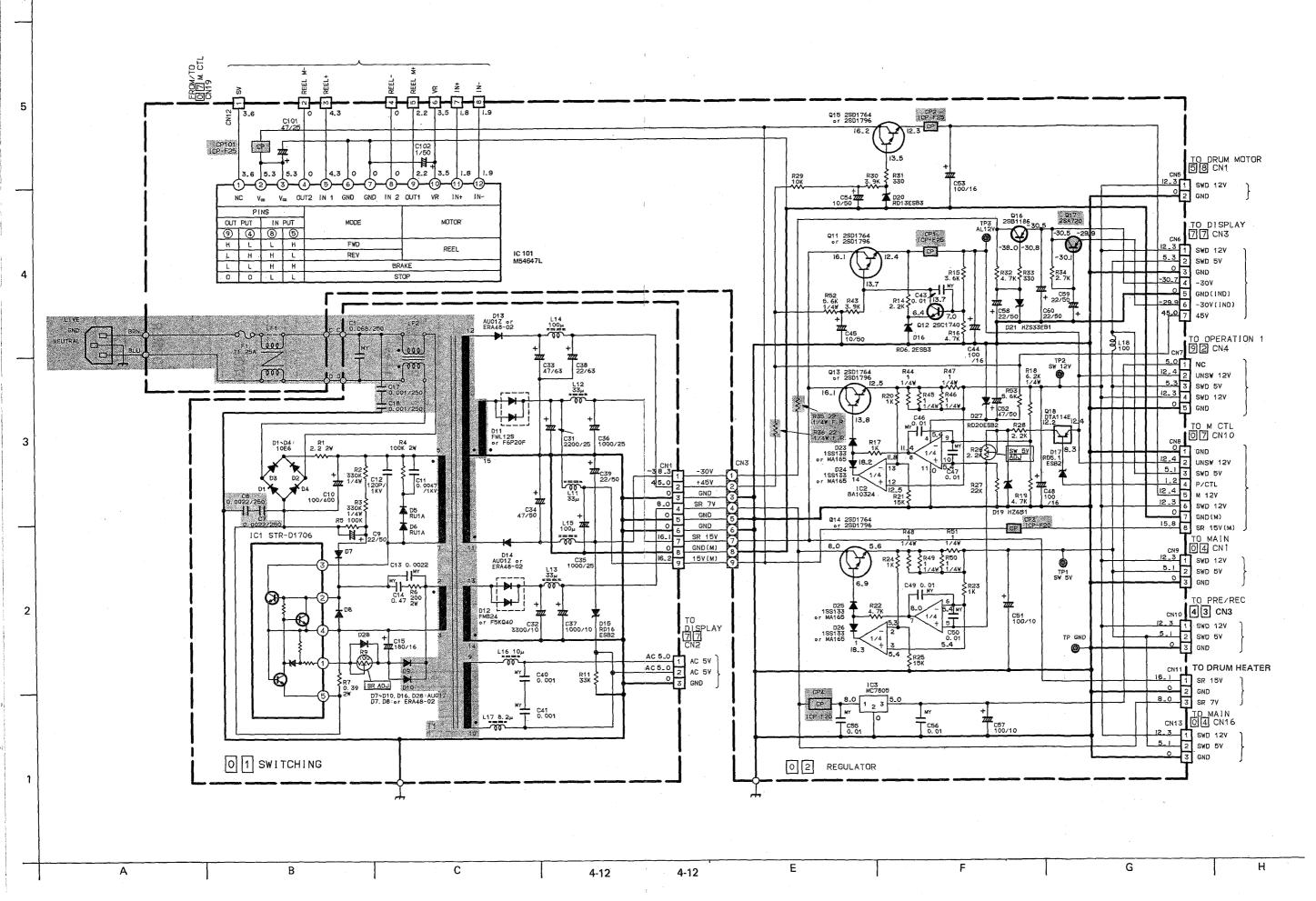


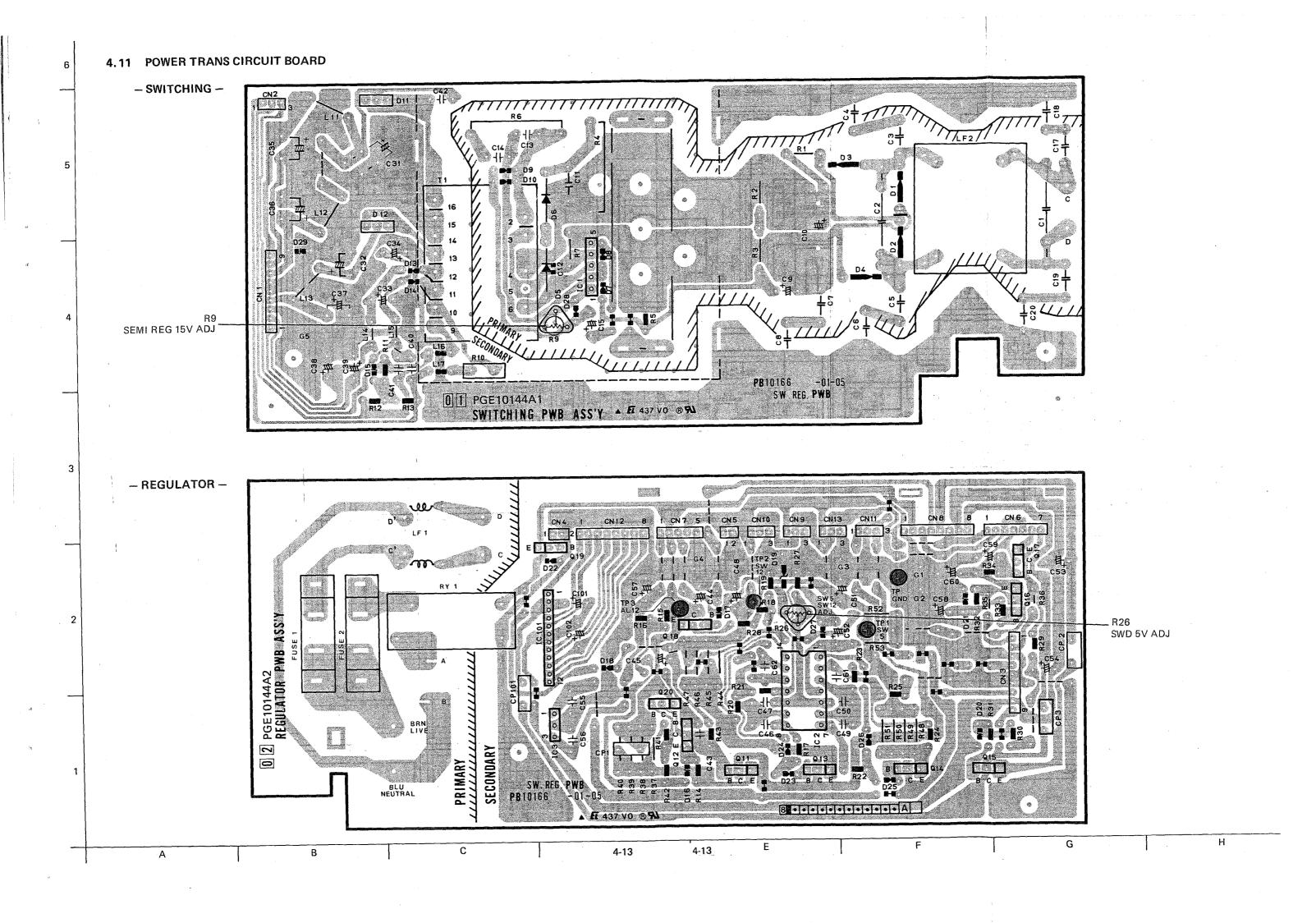


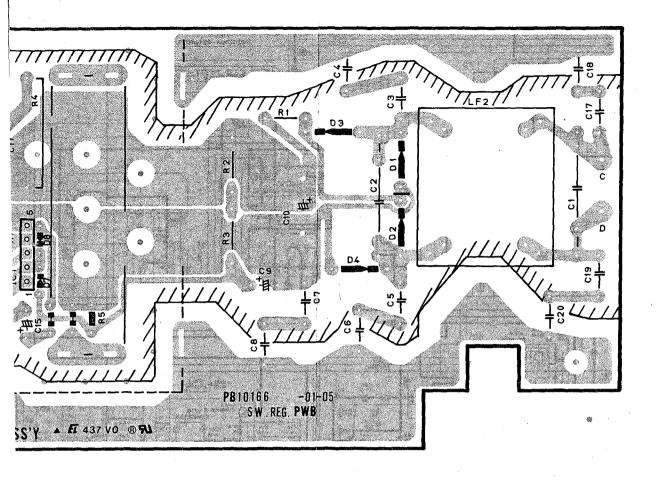


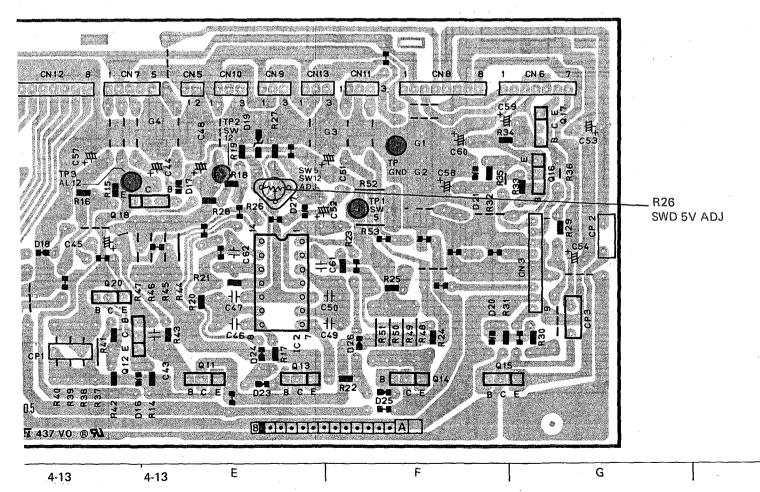
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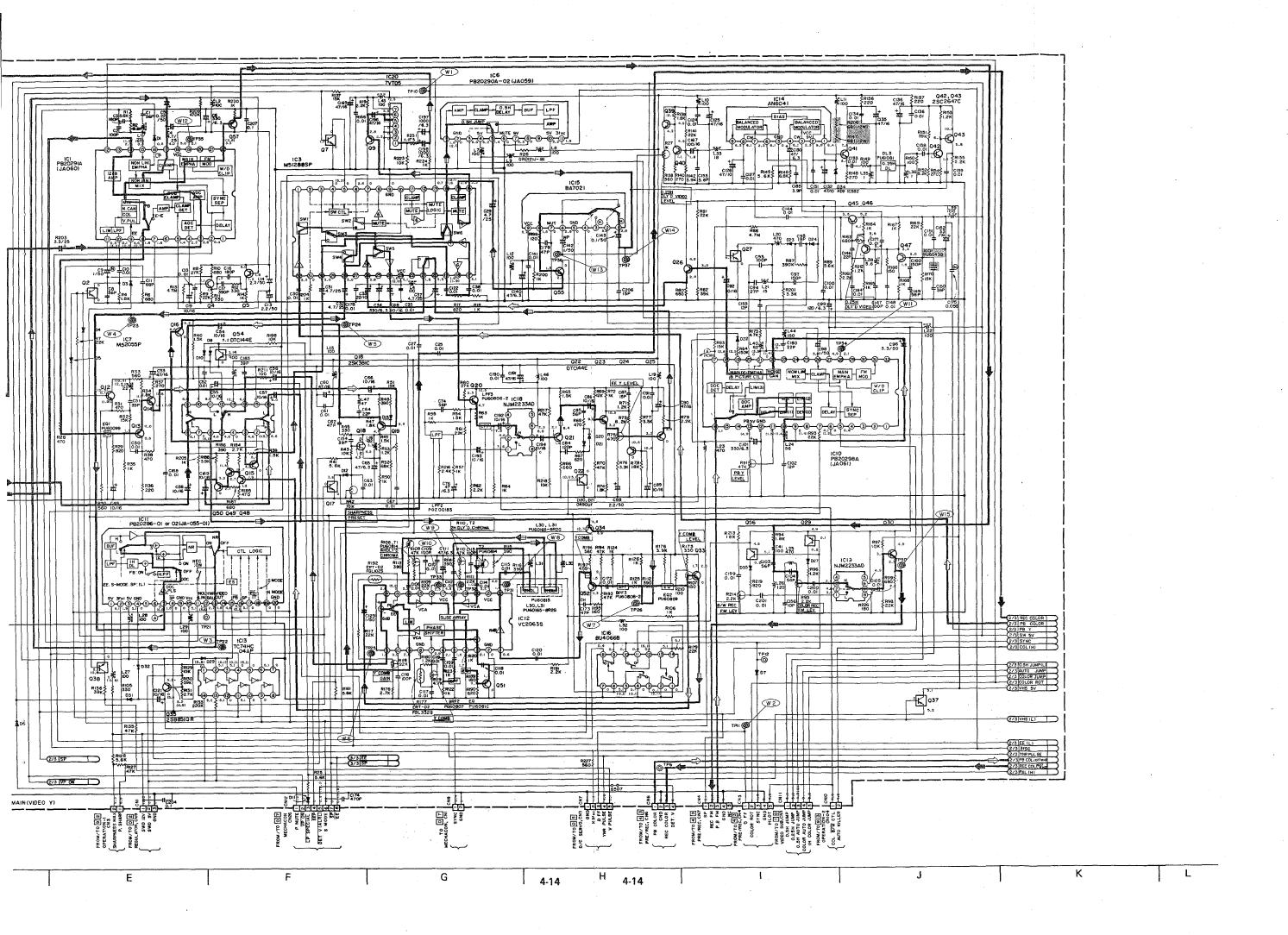


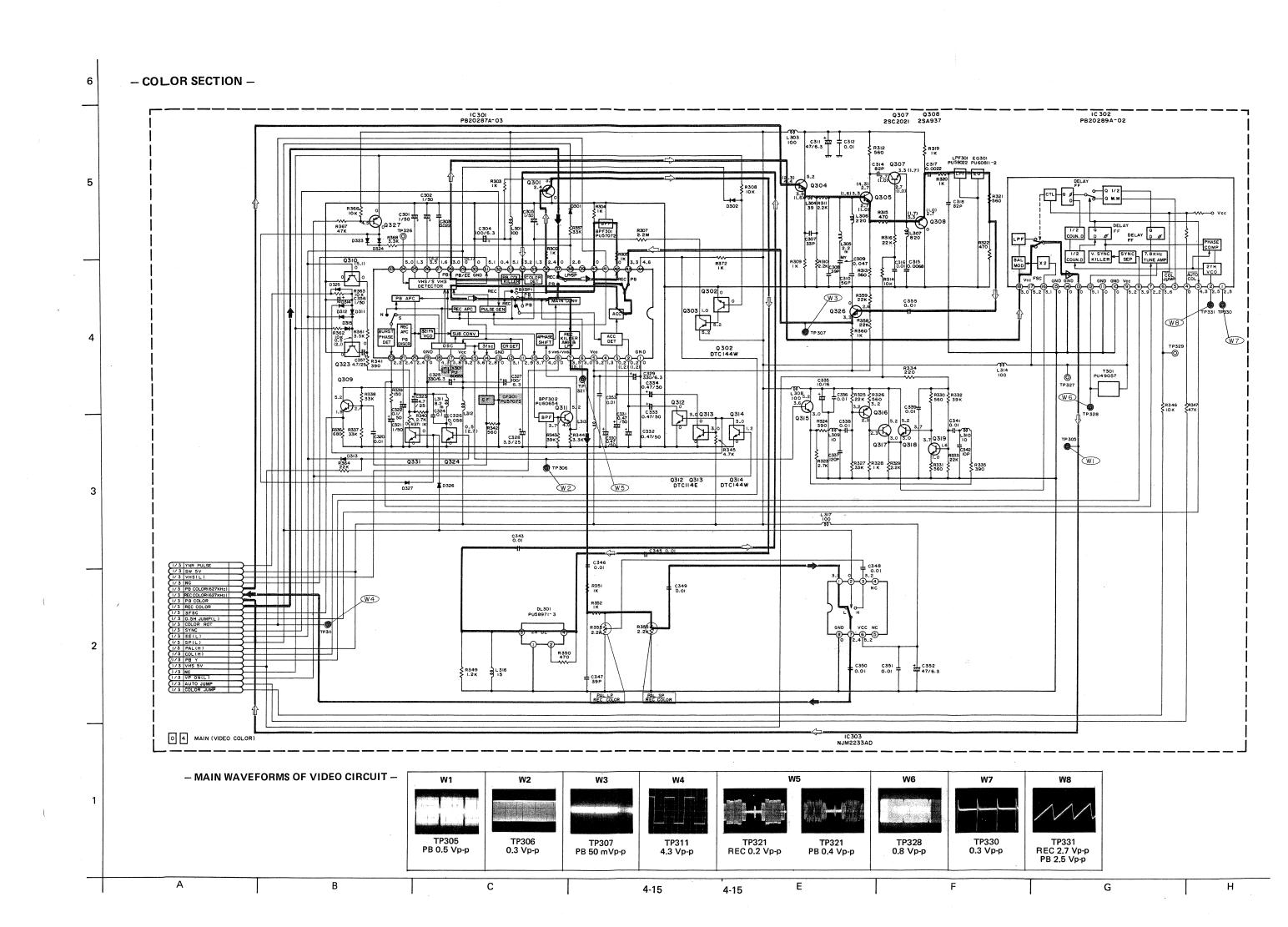


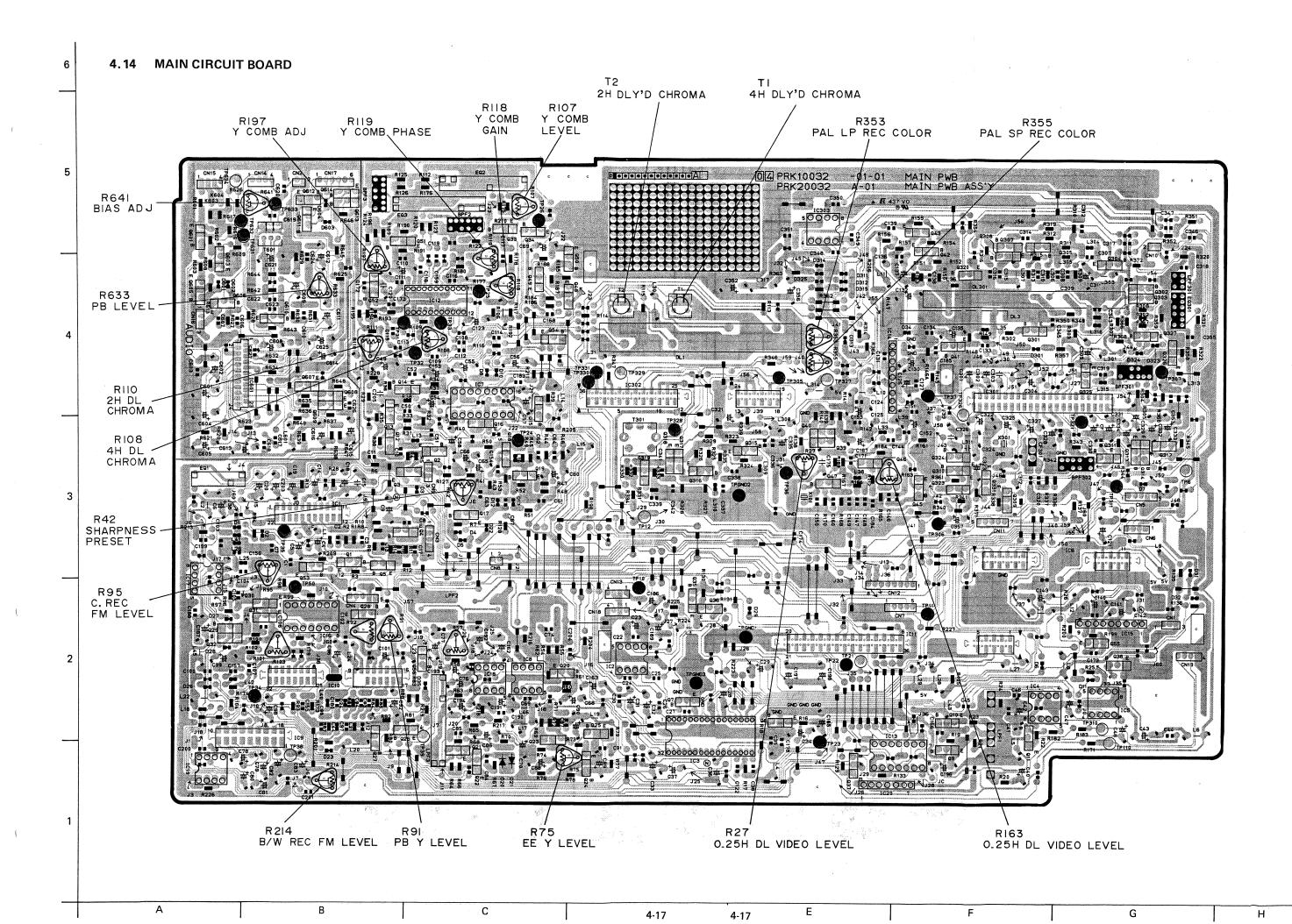
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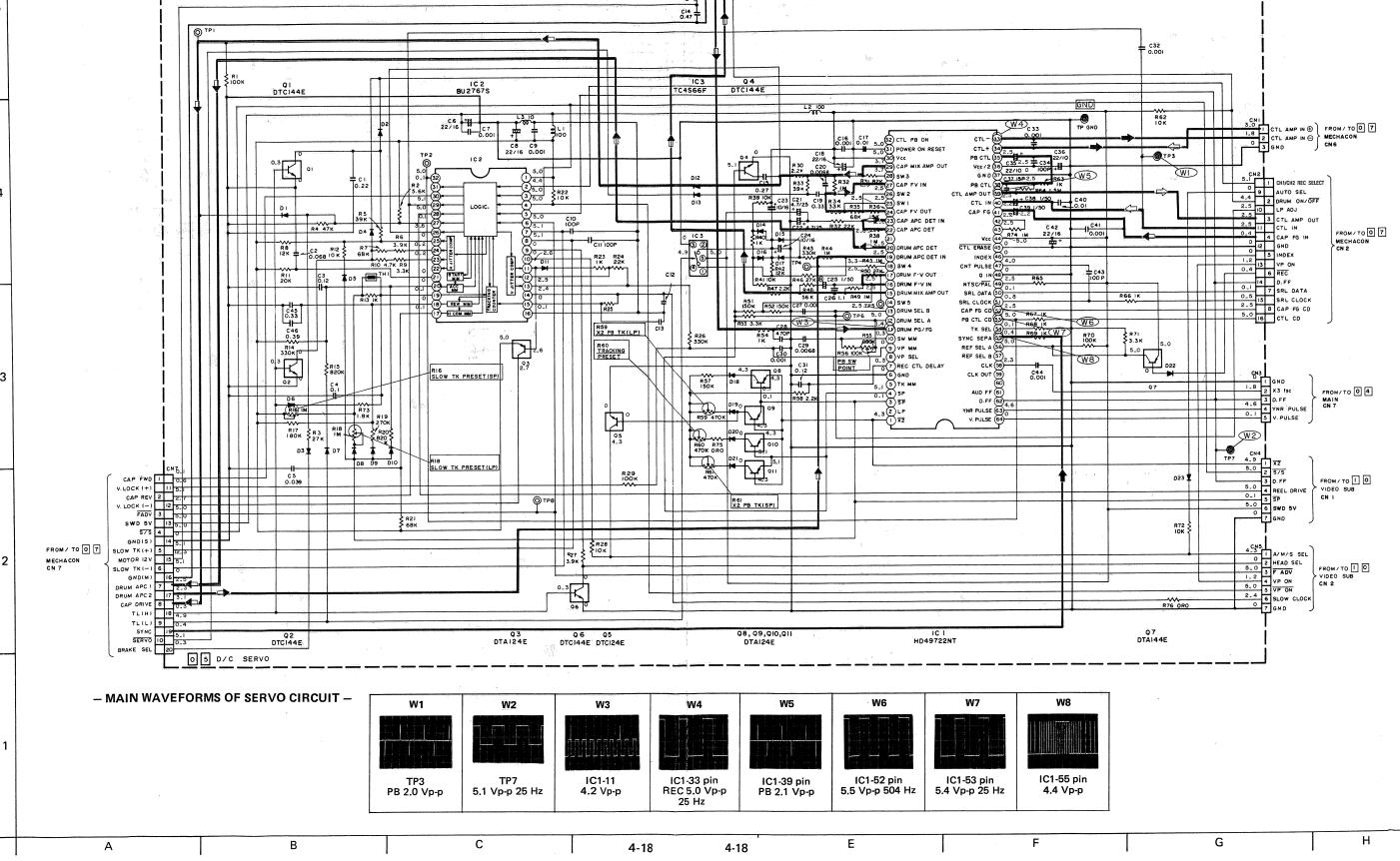
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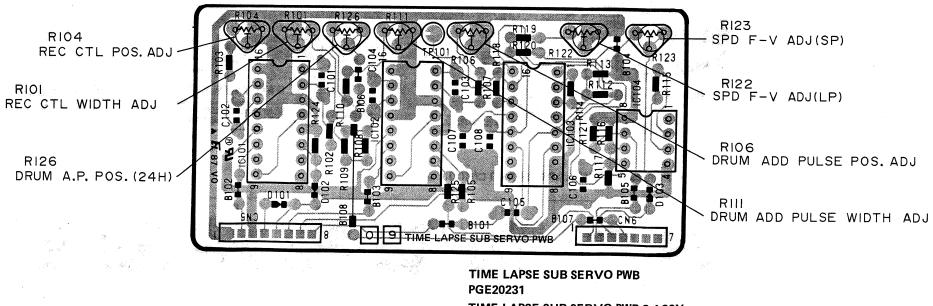
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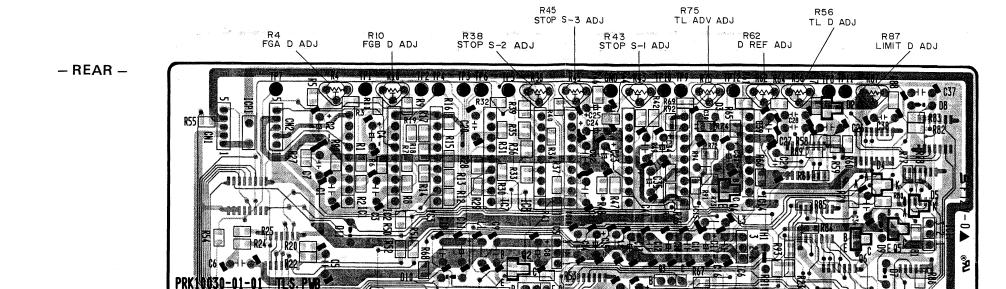
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TIME LAPSE SUB SERVO PWB 2 ASSY PGE20321A2

4-21

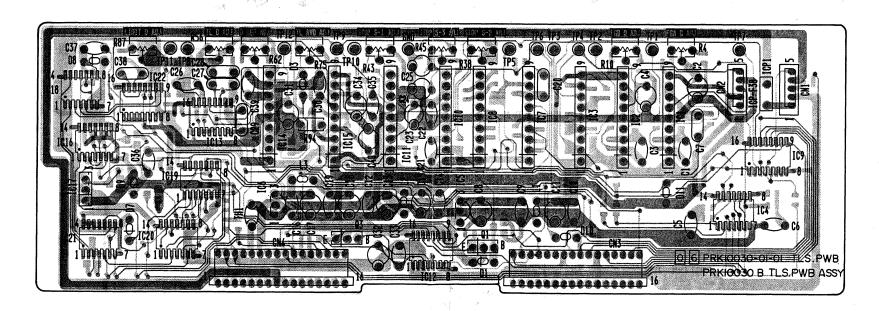


PRK10030

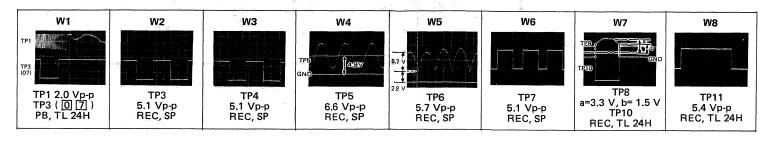
-01-01 TLS. PWB

PRK10030 A-01 TLS. PWB ASS'Y

- FRONT -



- MAIN WAVEFORMS OF TIME LAPSE SERVO CIRCUIT -



4-22 4-22

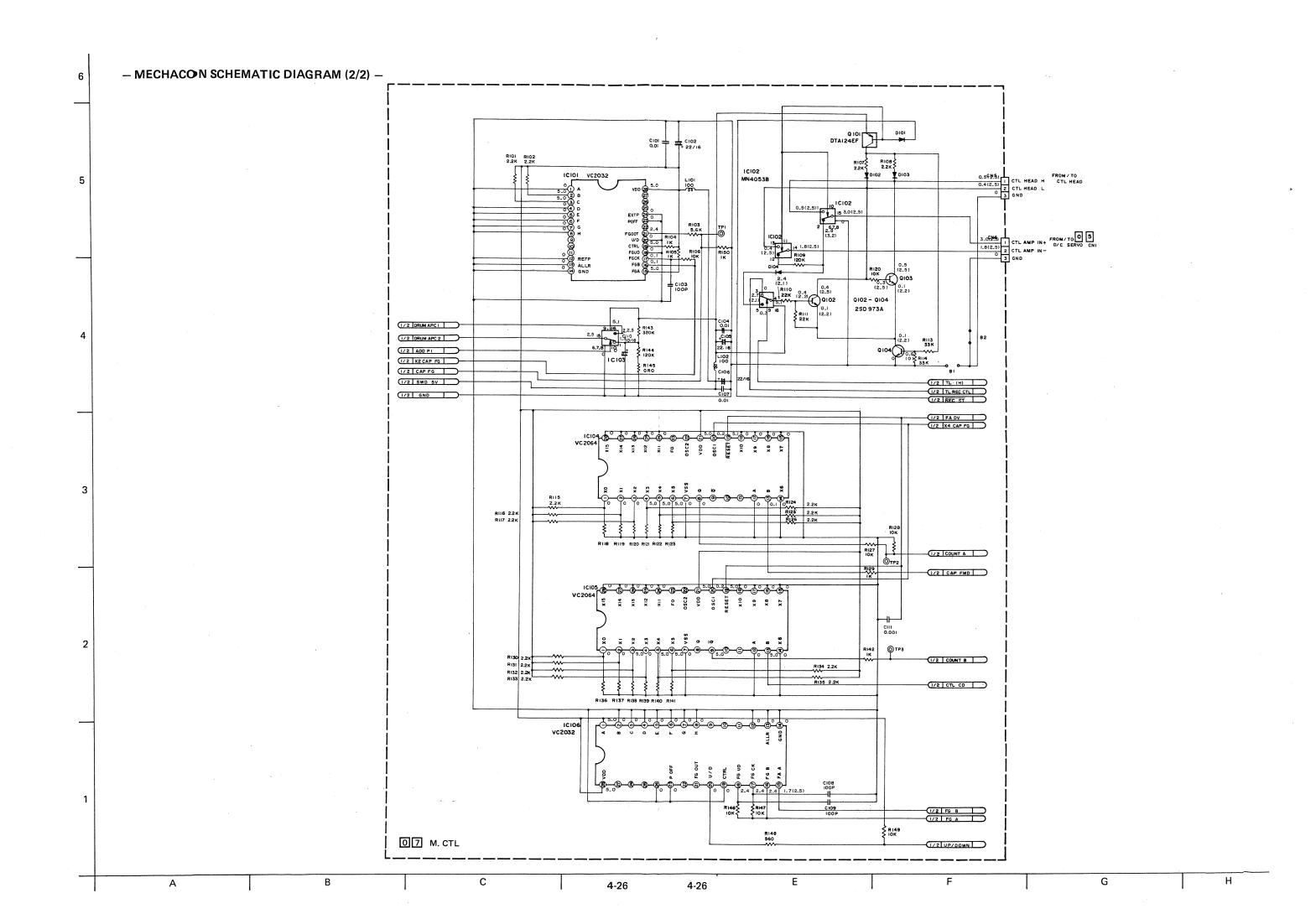
С

В

Ε

4-23

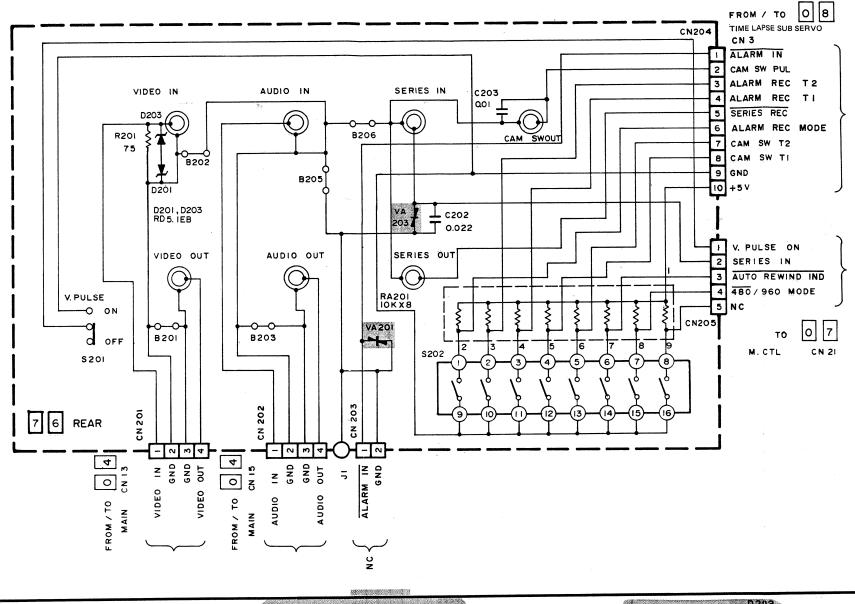
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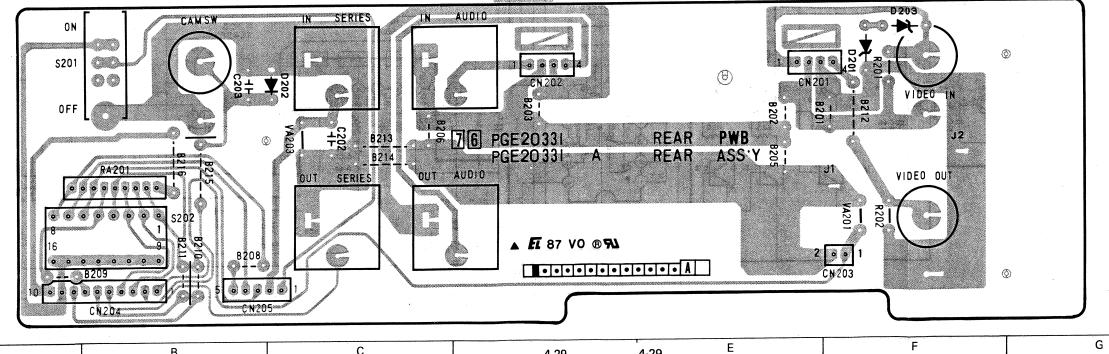


4-28

Ε

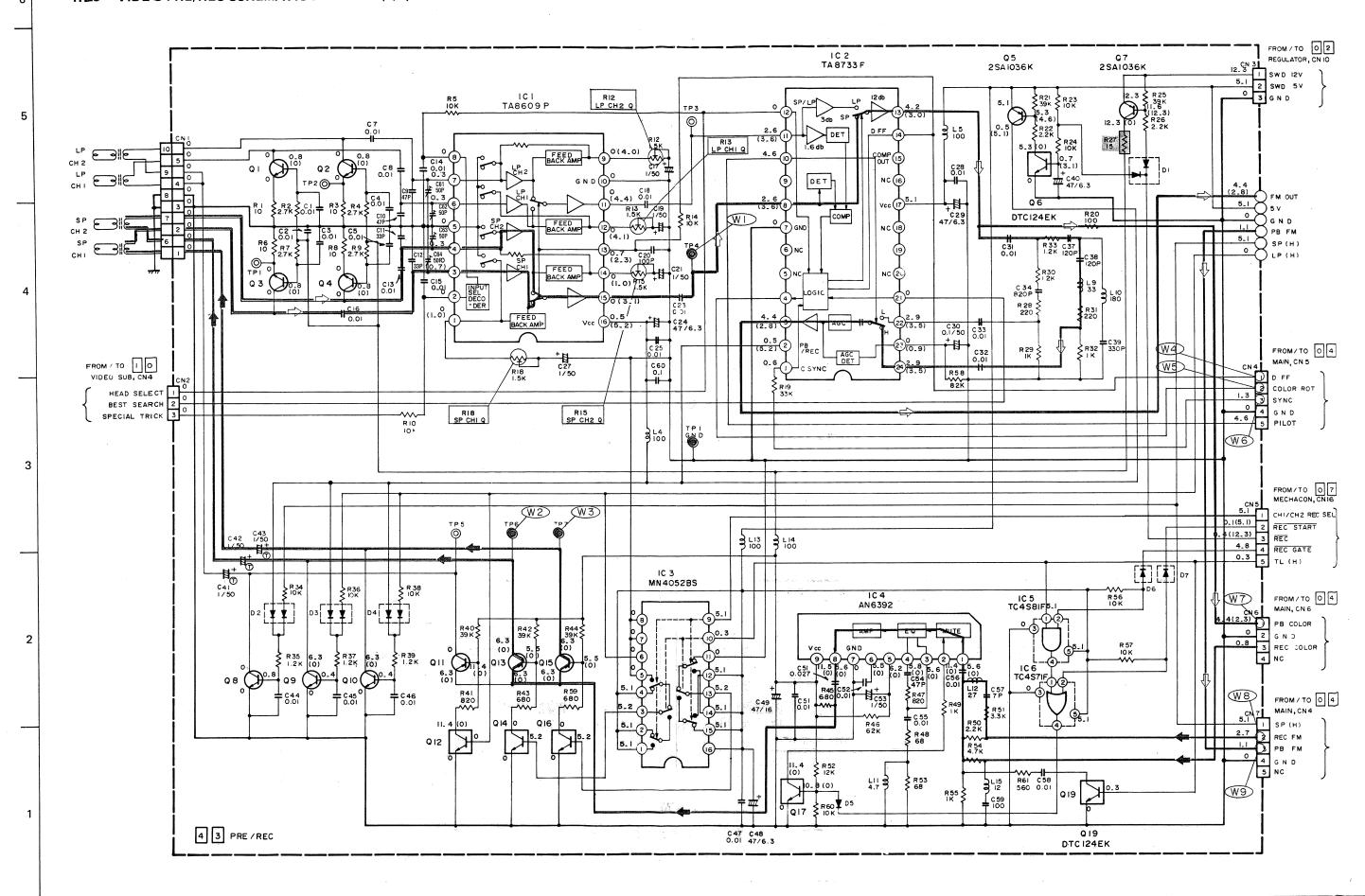
Α





4-29

Α



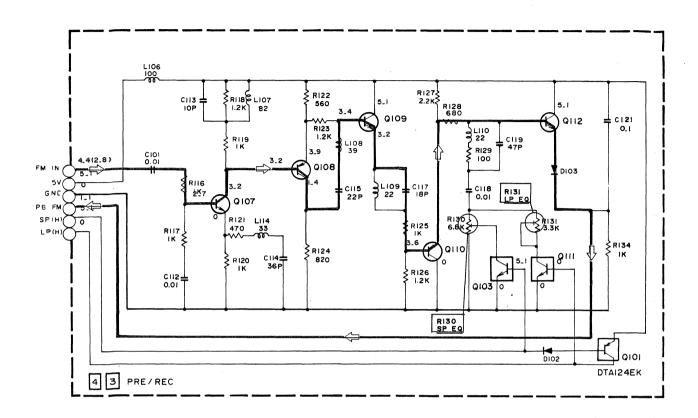
4-30

4-30

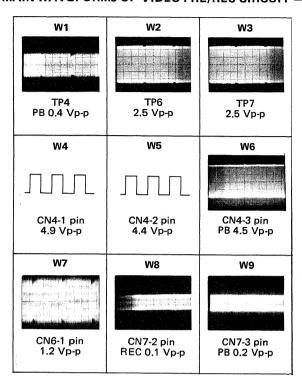
С

G

4.26 VIDEO PRE/REC SCHEMATIC DIAGRAM (2/2) & CIRCUIT BOARD

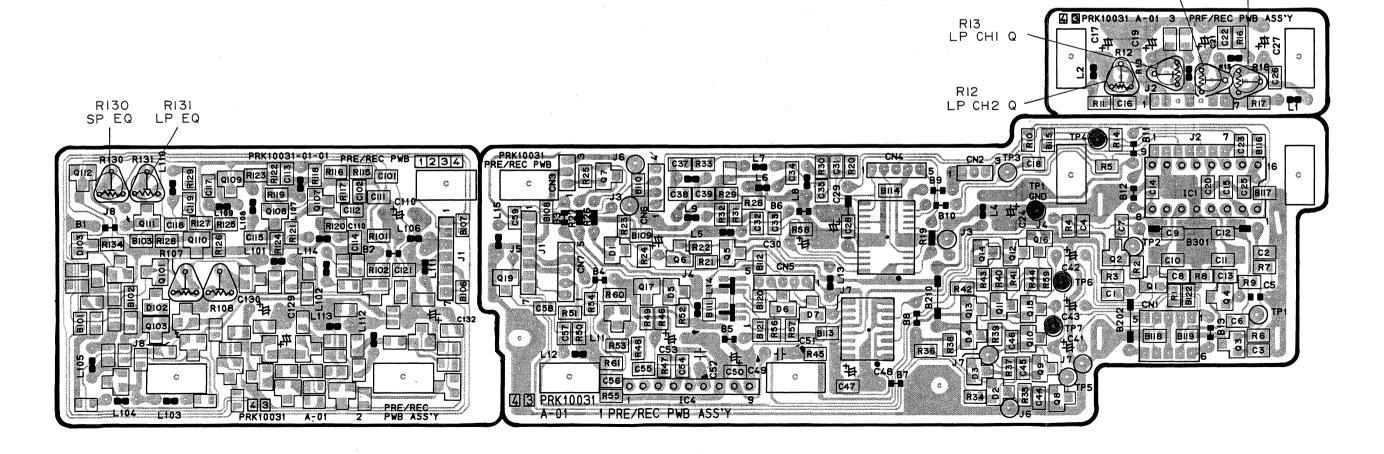


- MAIN WAVEFORMS OF VIDEO PRE/REC CIRCUIT -



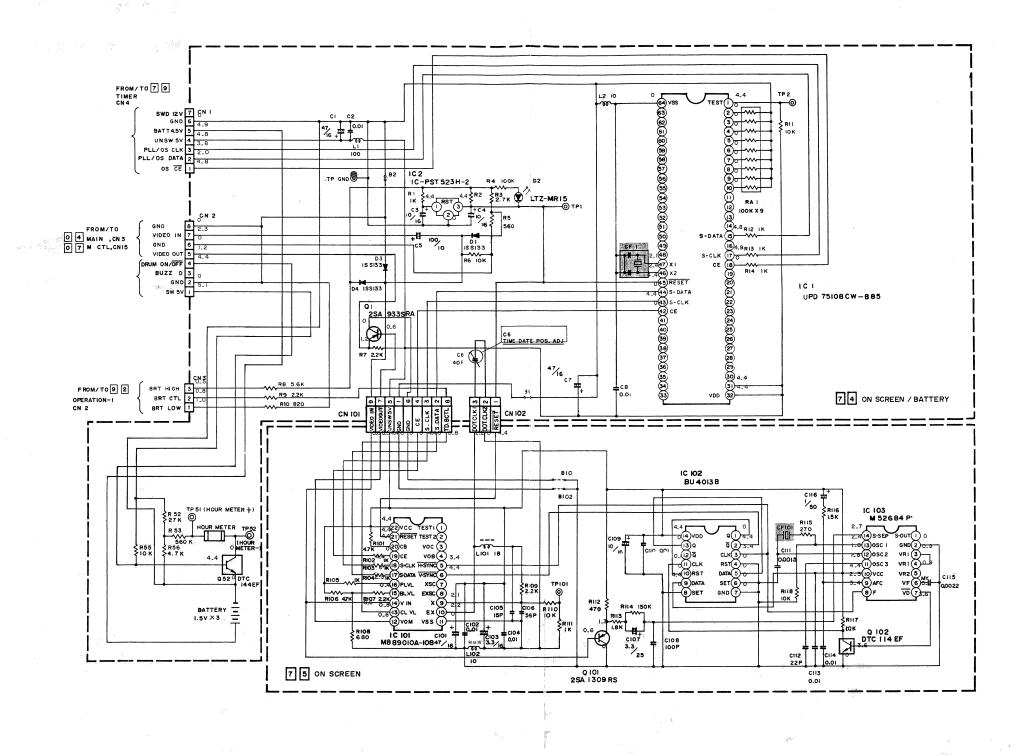
R15

SP CH2 Q SP CHI Q



4-31

M



Α Ι

C

4-32

4-32

E

G

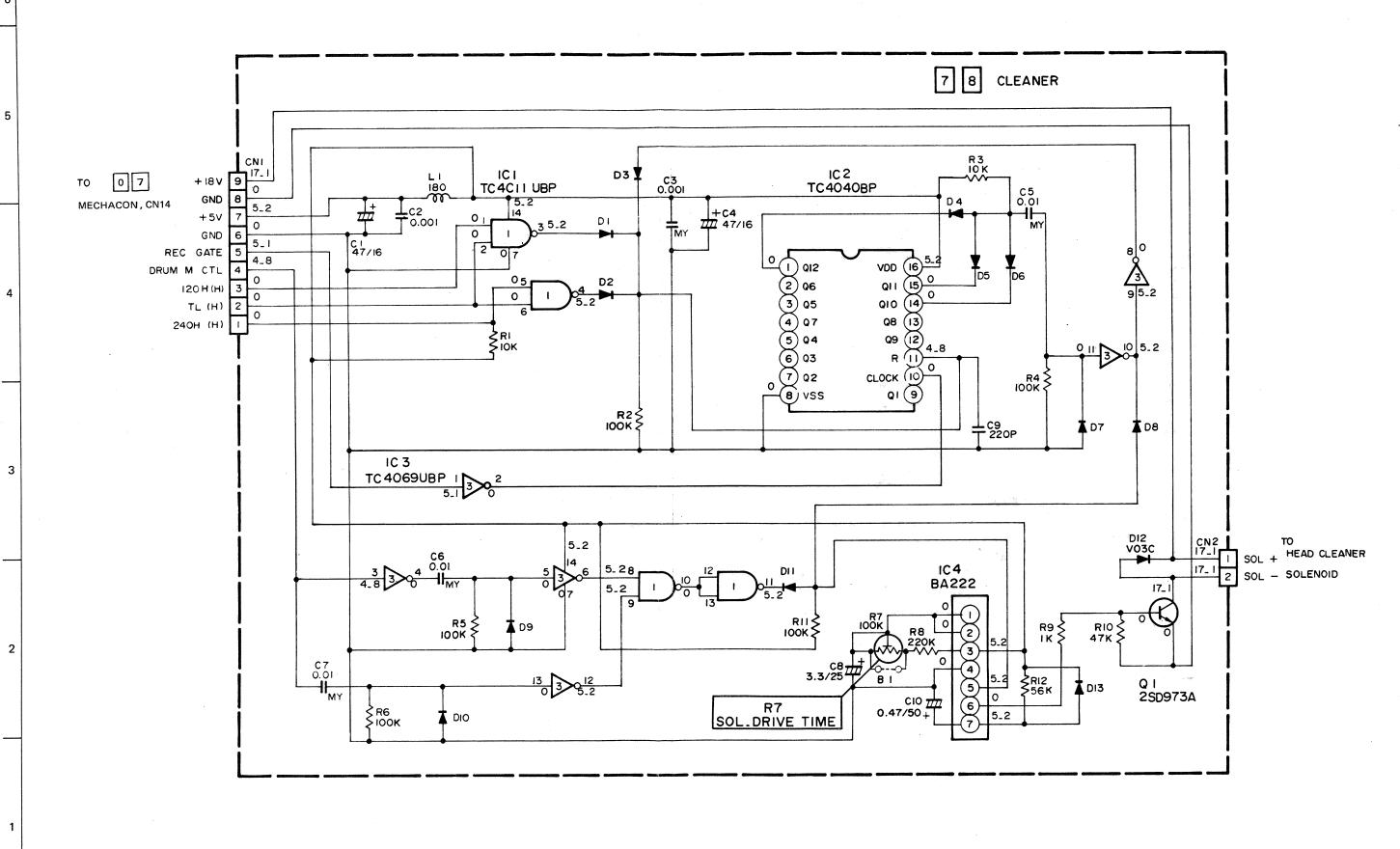
Н

3

TIME DATE POS. ADJ

A B C 4-33 4-33 E F G

B C 4-35 4-35 E F G H



B C 4-36 4-36 E F

SOL. DRIVE TIME

SOL. D

1

.

В

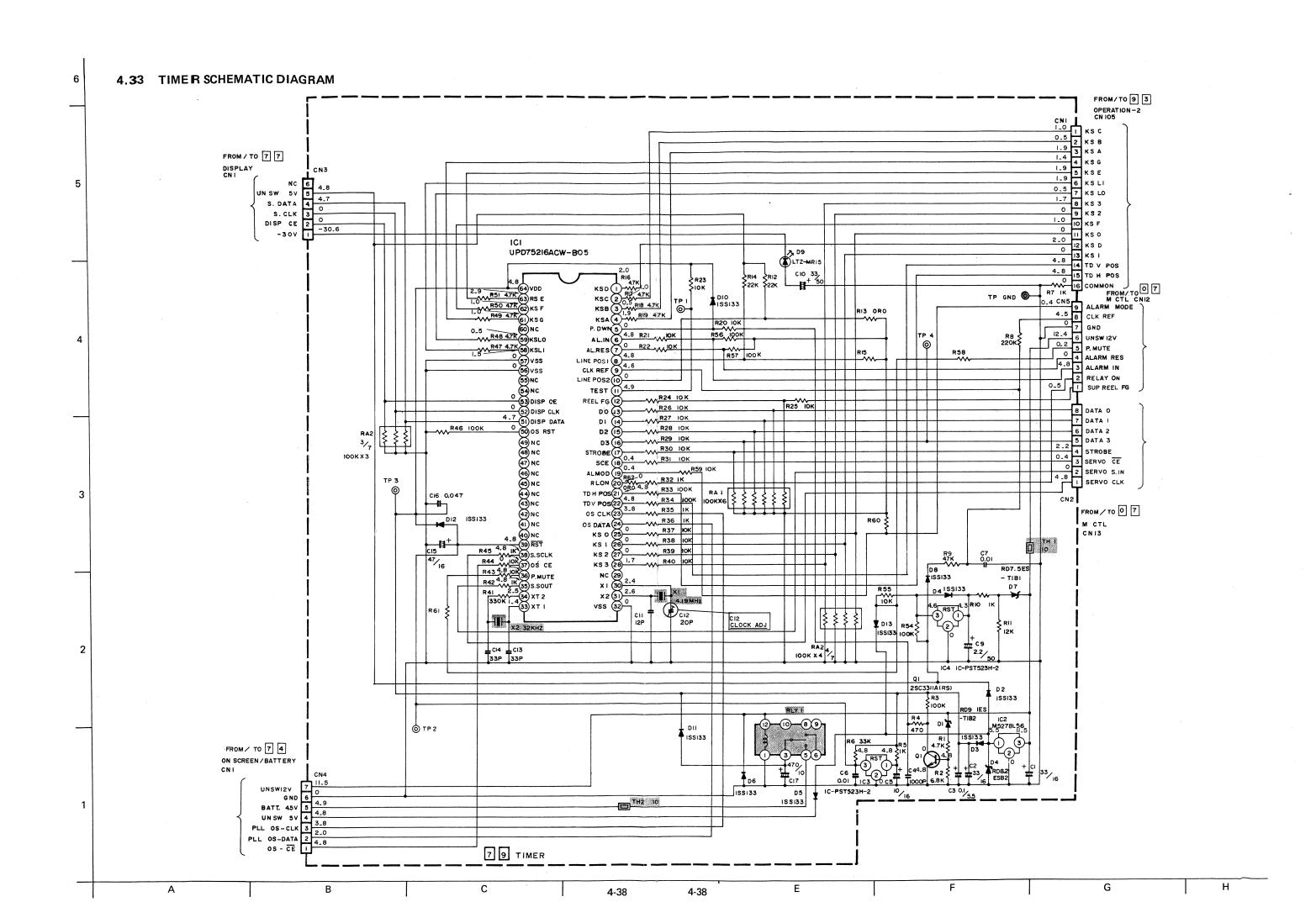
С

4-37

F

G

Н



В

4-39

A B C 4-40 4-40 E F G H

1

В

С

4-41

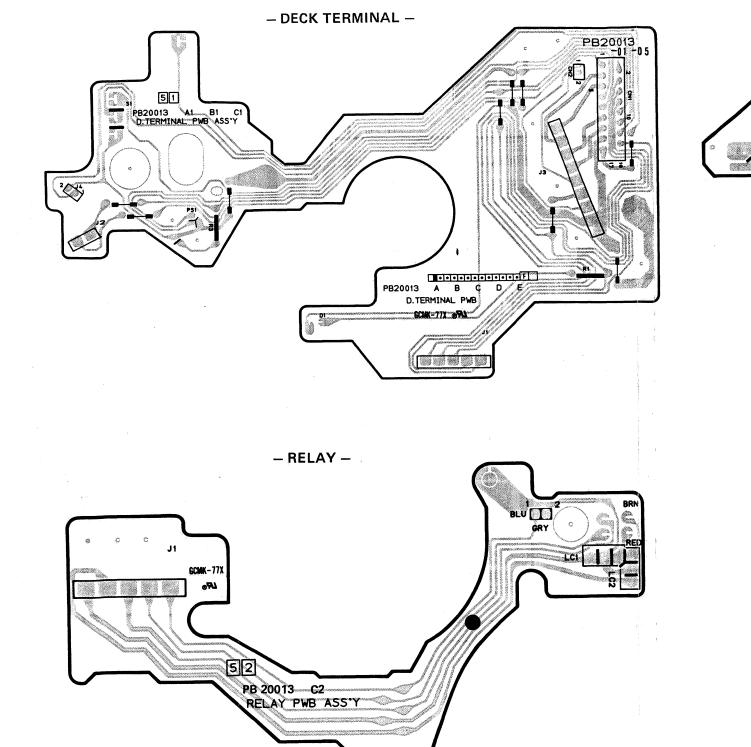
4-41

E

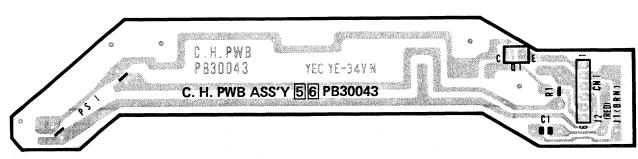
F

G

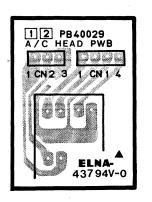
4.37 DECK TERMINAL CIRCUIT BOARD



- CASSETTE HOUSING -



- A/C HEAD -



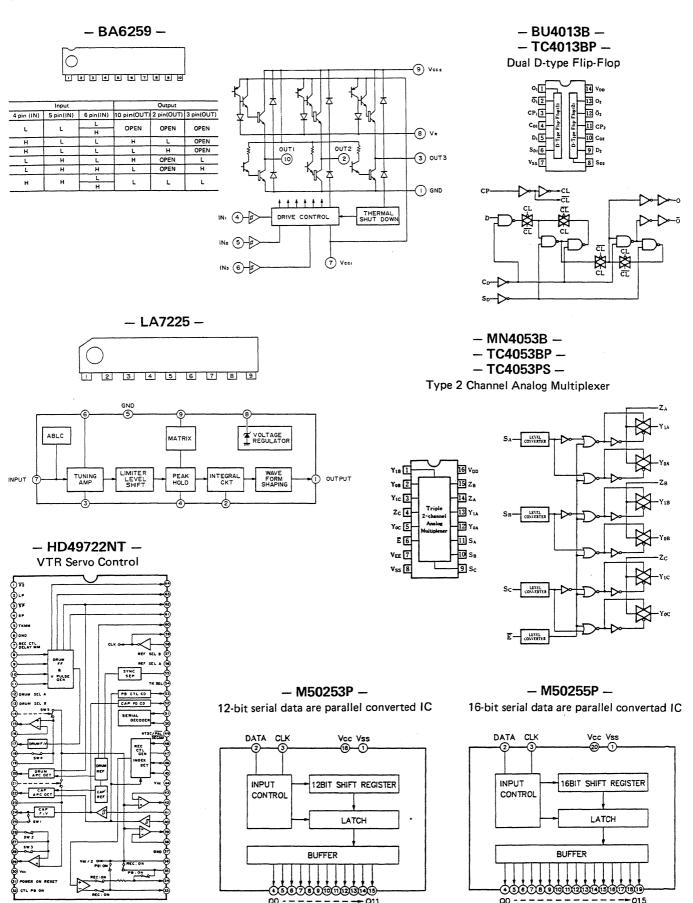
- END SENSOR -



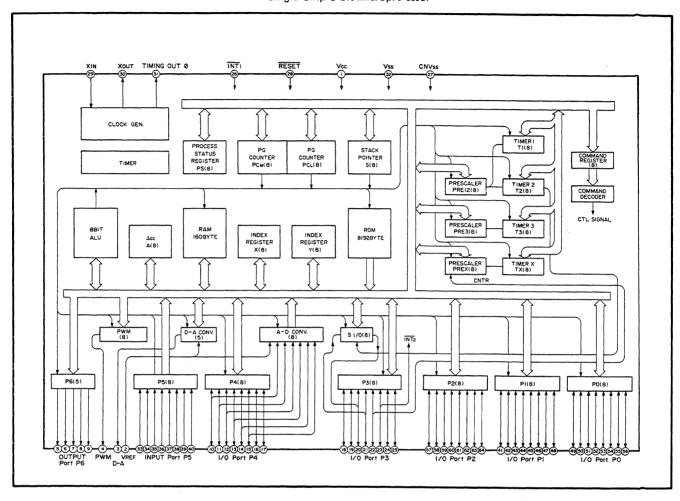
- REC SAFETY -

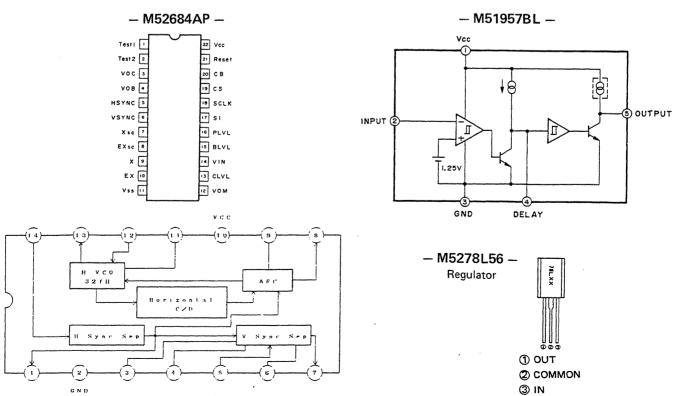
4-42 4-42

4.39 IC BLOCK DIAGRAMS



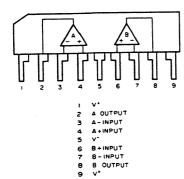
- M50938E-329SP - Single Chip 8-bit Micropre essor

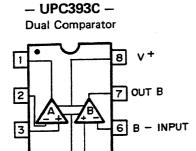






NJM2904S —Dual Operation Amplifier



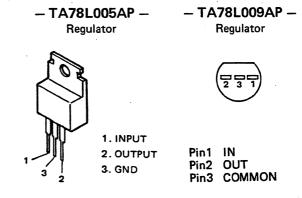


5 B + INPUT

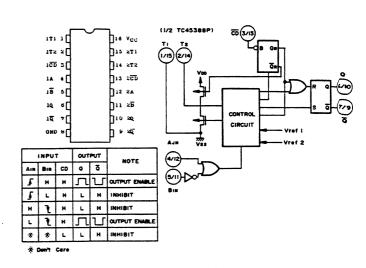
OUT A

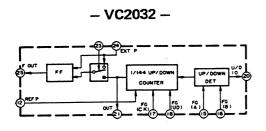
A - INPUT

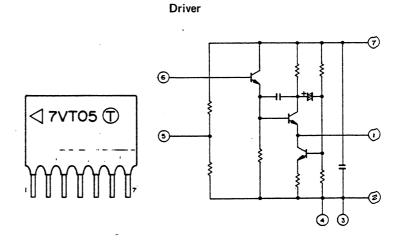
A + INPUT



— TC4538BP — Dual Precision Retriggerable/Ressettable Monastable Multivibrator







- 7VT05 -

SECTION 5 EXPLODED VIEWS AND PARTS LIST

SAFETY PRECAUTION

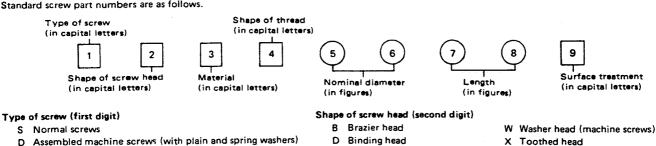
Parts identified by the \triangle symbol are critical for safety. Replace only with specified part numbers.

1 STAN	NDARD PART NUMBER CODING	, ,	age
	Screw coding		
5.1.2	Fuse coding	. 5	- 3
	ODED VIEWS AND PARTS LIST		
5.2.1	Packing assembly	. 5	- 3
5.2.2	Cabinet assembly	. 5	- 4
	Chassis assembly		
5.2.4	Mechanism (1) assembly	. 5	- 6
5.2.5	Mechanism (2) assembly	. 5	- 6
5.2.5	Mechanism (2) assembly	. 5	5

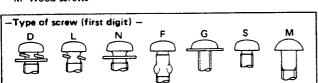
5.1 STANDARD PART NUMBER CODING

5.1.1 Screw coding

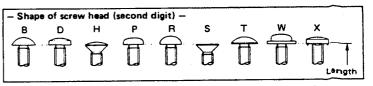
Standard screw part numbers are as follows.



- Assembled machine screws (with plain and spring washers) D
- (with spring washer) L N (with plain washer)
- Feather screws F
- G Washer head tapping screws
- M Wood screws



- Binding head D
- Oval countersunk head
- Pan head
- R Round head
- S Flat head
- Truss head

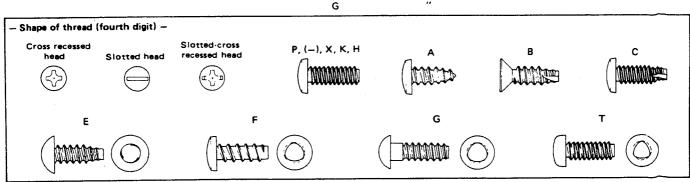


Material (third digit)

- S Steel
- N Nickel silver
- E Stainless steel
- Cast brass
- Cast iron С
- Aluminum
- U Copper B Brass
- Z Zinc alloy K Polycarbonate
- Phosphor bronze

- Shape of thread (fourth digit)
 - Cross recessed head screws
 - (-) Slotted head machine screws
 - X Slotted-cross recessed head machine screws
 - Cross recessed head machine screws for precision equipment (type 1) Κ Н
 - (type 3)
 - Cross recessed head tapping screws (type 1) Α В (type 2)

 - (type 3) С
 - Cross recessed head special tapping screws (brand: evertight) E F
 - (brand : P-tight) (brand : taptight)
 - ..



Т

Nominal diameter (fifth and sixth digits)

The fifth and sixth digits are numbers indicating a nominal diameter or dimension. If the dimension exceeds 10 mm, three digits are used. The number indicates a nominal diameter or dimension, given in millimeters, multiplied by ten.

Length (seventh and eighth digits)

The seventh and eighth digits are numbers indicating length in milimeters. The preceding figure is zero when the dimension is smaller than 10 mm. For machine screws used in precision equipment whose length is given in units of 0.1 mm, the number indicates ten times the size of their length.

Surface treatment (ninth digit)

- Z Dichromate treatment after galvanizing (MFZn II-C)
- Nickel plating (MFNi II, MFNi I)
- Chromium plating (MBCr II, MBCr I) R
- G Silver plating (SP4)
- Black coating after plating В
- Blackening of iron (FB)
- М Blackening after galvanizing
- κ Pickling of brass (PF2)
- Phosphate treatment
- W Uni-chrome plating
- L Coating with transparent paint
- Coloring red after galvanizing (MFZn II-C)
- C Coloring blue after galvanizing (MFZn II-C)
- Coloring green after galvanizing (MFZn II-C)
- Coloring purple after galvanizing (MFZn II-C)

*	4. MECHANISM	**************************************
1 1A 2 3 4 5 6 7 8 9	PQ43710A PQ41952-5 PQ41948A SDST2606Z PQ43330C PU60646 PQ43299B PQ43837A PQ43836 PQM30017-25 LPSP2004Z	TENSION ARM ASSY SPRING TENSION BAND ASSY SCREW FULL ERASE HEAD ASSY FULL ERASE HEAD FULL ERASE HEAD SUB ASSY ROLLER ASSY RING SLIT WASHER SCREW
11 12 13 14 15 16 17 18 19 20	PQ41954-1-1 PQ41955 PQ41956 PQ41957 OR PQ42958 PQM30018-39 OR PQM30018-50 PQM30002-124 PQ40353 PU60560-2 PQ42984-2 PQ43687A	TORSION SPRING IMPEDANCE ROLLER COLLAR LOWER FLANGE LOWER FLANGE SPACER SPACER COMPRESSION SPRING NYLON NUT AUDIO/CONTROL HEAD HEAD BASE SCREW, X3
21 22 23 24 25 26 27 28 29 Å 30	PU30080-49 DPSP26062 PGZ01143 PU60556-1-2 PQM30017-5 PU53629-3 PQ40268-2 PRD42612 SPSH20062 PGZ01300	SPRING, X3 SCREW, X2 POLE BASE ASSY(TAKE-UP) POLE BASE ASSY(SUPPLY) SLIT WASHER, X2 TAPE GUIDE GUIDE FLANGE GUIDE FOLE CAP MINI SCREW CAPSTAN MOTOR
31 32 33 34 35 36 37 38 38 39 40	SPSP2605N PRD42685A PQM30017-29 PQ43295A-1 PQ43296 PQ41974A-3 PU58645-1-4 Q03093-834 PQ41976A-1 PQ42212-1-4 PQM30017-22 PQ41978	SCREW, X3 HALF LOADING ARM ASSY SLIT WASHER MOTOR BRAKE ASSY SPRING REEL MOTOR BRACKET ASSY IDLER ARM WASHER SPRING ARM ASSY SPRING SLIT WASHER HOLDER
41 42 43 44 45 46 47 48 49 49 49 50 50 A	SPST2606Z PGZ01332 LPSP2604Z SPST2606Z PU59250-1-2 PQ20248H-20 PU58638-1-2 PQM30017-5 Q03093-828 PQ41979A-5 PQ42677 PQ41985B-3 PQ41990	SCREW REEL MOTOR ASSY SCREW, X2 SCREW, X2 REEL DISK (SUPPLY) MAIN DECK ASSY REEL DISK (TAKE-UP) SLIT WASHER, X2 WASHER, X2 LOADING ARM ASSY (SUPPLY) TORSION SPRING (SUPPLY) TORSION SPRING (TAKE-UP) TORSION SPRING (TAKE-UP)
512 A 523 54 556 558 590	PQ42973A PQ42974A PQM30001-224 PQ31677 PQ42963 PQM30017-24 PQ41994A-3 PQ20577 PQ41996B OR PQ41996C PQ41998A LPSP2604Z	CAM BRACKET ASSY SLIDE CAM PLATE ASSY SPRING HALF LOADING CAM SECOND GEAR SLIT WASHER, X2 ARM GEAR ASSY CONTROL CAM MODE MOTOR ASSY MODE MOTOR ASSY WORM ASSY ASSY SCREW, X2

 		PART NAME, DESCRIPTION
61	PQ42001	WINDMILL
62		CLUTCH SPRING
63	PQ42003	WORM SHAFT
	PQM30017-5	SITT WASHER. YO
	PQM30003-20	BELT HASHER, XE
66	PQM30018-22	SPACER
67	PU61088	REEL SENSOR(S)
68		ASSY SCREW
69		SCREW, X2
70	SPST2606Z	SCREW, X2
71	LPSP2604Z	ASSY SCREW
	PQ42038C	PLATE ASSY
72A	PQ31044-1-2	LOCK LEVER
72B	PQM30001-223 PQM30001-211	TENSION SPRING
72C	PQM30001-211	TENSION SPRING
73	PQM30017-28	SLIT WASHER, X2 PINCH ROLLER ARM ASSY
74	PQ42006B	PINCH ROLLER ARM ASSY
/5	PQM30017-28	SLIT WASHER
76	Q03093-833	WASHER
77	Q03093-833 PQM30001-229	TENSION SPRING
	PQ42013B-4	GUIDE ARM ASSY
	PQ42029	SPRING
		SLIT WASHER
80	PQ42019B-6	MAIN BRAKE ASSY (SUPPLY)
81	PQ42020B	MAIN BRAKE ASSY (TAKE-UP)
82	PQM30001-216	TENSION SPRING SUB BRAKE ASSY (SUPPLY)
83	PQ42021A-3	SUB BRAKE ASSY (SUPPLY)
83A	PQ42023-1-2	TENSION SPRING SUB BRAKE ASSY (TAKE-UP)
84	PQ42037A-2	SUB BRAKE ASSY (TAKE-UP)
844	PQ42028-1-1	TORSION SPRING
		SLIT WASHER
86 87		LED HOLDER, INCLUDE LED
	SPST2606Z	SCREW
		SCREW
	PU60444 SDSP2610Z	SLIDE ENCODER
70	3U3F 26 1U2	SCREW
91	PU59919-1-1	CASSETTE SWITCH
	SDST2608Z	SCREW
		SCREW, X3
		SCREW
95	PQ32776	CAP

SECTION 6 ELECTRICAL PARTS LIST

SAFETY PRECAUTION

Parts identified by the 🛕 symbol are critical for safety. Replace only with specified part numbers.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

RESISTORS— All resistance values are in ohms (Ω), unless

otherwise indicated.

k : 1,000 (Kilo)
M : 1,000,000 (Mega)
Chip R : Chip Resistor
Chip VR : Chip Variable Resistor

Comp. R : Composition Resistor
CR : Carbon Film Resistor
FR : Fusible Resistor
MFR : Metal Film Resistor
MPR : Metal Plate Resistor

OMR : Oxide Metal Film Resistor
PMR : Precision Metal Film Resistor
UFR : Unflammable Resistor

VR : Variable Resistor (Potentiometer)

WR : Wire Wound Resistor

CAPACITORS—All capacitance values are in μ F, unless otherwise indicated.

pF : $\mu\mu$ F (Pico farad) C Cap : Caramic Capacitor Chip Cap : Chip Capacitor

Chip T Cap: Chip Tantalum Capacitor
E Cap: Electrolytic Capacitor
FM Cap: Film Mica Capacitor

LL Cap : Low Leak Current Electrolytic Capacitor

MM Cap : Metalized Mylar Capacitor MP Cap : Metalized Paper Capacitor

MY Cap : Mylar Capacitor NP Cap : Non-polar Capacitor PC Cap : Polycarbonate Capacitor PP Cap : Polypropylene Capacitor PS Cap : Polystyrol Capacitor T Cap : Tantalum Capacitor TF Cap : Thin Film Capacitor TR Cap : Trimmer Capacitor

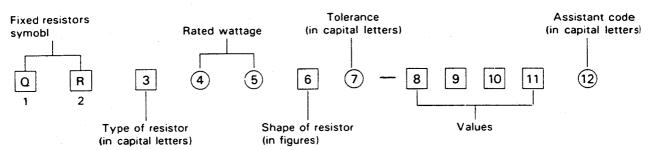
NOTES:

- [2 digits] indicates circuit board symbol number.
- "X" indicates quantity per set.
- Regarding electrical parts lists of board assemblies, the lists with asterisk (*) marks in the following table are ccommon to the three units

6.1 STANDARD PART NUMBER CODING

6.1.1 Fixed resistor coding

Fixed resistor part numbers are as follows.



		Rated	wattage	Tolerance	Assistant code
Type	of resistor (third digit)	(fourth	and fifth digits)	(seventh digit)	(twelfth digit)
C	Composition resistors	AO	1/10 W	F ± 1 %	A Small type
D	Carbon film resistors	18	1/8 W	G ±2%	B Small type
F	Unflammable resistors	16	1/6 W	J ±5%	S Small type
Ġ	Oxide metal film	14	1/4 W	K ± 10 %	Y Lead taping
Ū	resistors	12	1/2 W	M ±20%	Z Lead taping
н	Fusible resistors	01	1 W		
M	Metal plate resistors	02	2 W	Values	
S	Metal glazed resistors	03	3 W	(eighth - tenth or e	leventh digits)
v	Precision metal film	04	4 W	examples:	•
•	resistors	05	5 W	R47	0.47 Ω
w	Wire wound resistors	06	6 W	4R7	4.7 Ω
X	Metal film resistors	07	7 W	470 47	$7 \times 10^{0} \dots 47 \Omega$
Z	Special resistors	75	7.5 W	471 47	7×10^{1} 470 Ω
_		08	8 W	472 4	7×10^2 4.7 kΩ
		10	10 W	473 4	$7 \times 10^3 \dots 47 \text{ k}\Omega$
		15	15 W	474 4	7×10 ⁴ 470 kΩ
		A6	16 W	475 4	7×10^5 4.7 MΩ
		20	20 W	QRV resistance show	vn by four digits:
		30	30 W	4640 46	$64 \times 10^{\circ}$
					64×10 ¹ 4.64 ks
				4642 46	64×10^2 46.4 kg

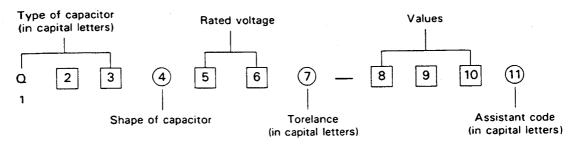
Shape of resistor (sixth digit)

Note: indicates flame retardant resistor.

Note:								r		·
Type of Shape resistor of resistor	С	D	F	G	н	M	s	٧	W	X
1	ф		\Box	þ	\Box			\Box	\Box	
2	þ	_						<u></u>		
3		Ų		۲ ۵						
4		Ù		۲□۲	Ϋ́	57		\Box		
5				4		\Box			(L) type	
6			급					\Box		-
7		ل	Lug (B) type					\Box		Ł Λ
8			Lug (A) type				[] _[] Chip		,	
9			Lug (C) type	Ì ∫	⊱					Ł √

6.1.2 Fixed capacitor coding

Fixed capacitor part numbers are as follows.



Ceramic capacitors

	Type of capacitor	Shape of capacitor (fourth digit)						
	first — third digits)	Mono-direction	Kink lead	Axial lead	Axial forming	Chip		
Symbol	Characteristics	Michie direction			lead			
QCC	Ceramic	1		4	5			
QCD	High capacitance					A		
QCF	High capacitance	1,4	3			8,A		
QCS	Temperature compensation	1	3	4	5	8,A		
QCT	Temperature compensation		Specia	al coding		8,A		
QCV	Ceramic			1	3			
QCX	Ceramic			1	3			
QCY	High capacitance	1,4	3	6	7	8,A		
QCZ	Special type		Specia	al coding				
QCB	Ceramic			В	С			

Electrolytic capacitors

Type of capacitor (first-third digits) Symbol Characteristics			Shape of capacitor (fourth digit)						
		Tubular	Mono-direction	Anti-stress	Forming	Snap-in			
QEB	Low leakage		4	5	6				
QEC	Low leakage		4,8,A	9,B	6,C				
	Tantalum (normal)		4	5	6				
GEE	Tantalum (small)		8						
QEF	Chip tantalum			8 (chip type)					
QEG	Low impedance		4						
QEK	Miniature type		4	5	6				
QEL	Small type		4	5	6	7			
QEM	Small type		4,A	5	6				
QEN	Non-polar	2	4	5	6				
QEP	Non-polar (small)		4,A	5,B	6,C				
QER	Miniature type		4	5	6				
QET	Small type	2	4,A	5,B	6,C	7			
QEU	Small type		4	5	6				
QEV	Small type		4		6	7			
QEW	Normal	2	4	5	6	7			

Paper film capacitors

Type of capacitor (first – third digits)		Shape of capacitor (fourth digit)						
,	first - third digits/	Tubulan	Norm	nal	Flame ret	ardant		
Symbol	Characteristics	Tubular	Mono-direction	Kink lead	Mono-direction	Kink lead		
QFA	Metalized polypropylene				7			
QFE	Metalized mylar				5			
QFF	Film mica		4					
QFG	Polypropylene film		4	8				
QFH	Metalized mylar	2	4	3	5,7	6		
QFJ	Mylar (special)		4					
QFK	Metalized mylar (small)				5			
QFM	Mylar	2	4	3,7	5	6		
QFN	Mylar (small)		4	. 3				
QFP	Polypropylene		4	3,8				
QFS	Polystyrole	2	4	3				
QFV	Thin film		4	8				
QFZ	Special type	Special coding						

Rated voltage (fifth and sixth digits)

Sixth digit	А	В	С	D	E	F	G	н	J	K	٧	w	x
0						3.15	4.0		6.3				
1	10		16	20	25		40	50	63	80	35		
2	100	125	160	200	250	315	400	500	630		350	450	600
3	1000	1250		2000				5000					

Tolerance (seventh digit)

A	+ 100 % - 10	M	± 20 %
F	± 1 %	N	±30 %
G	±2 %	P	+ 100 % - 0
н	+ 50 % - 10 %	R	+ 30 %
J	±5 %	x	+ 40 - 20 %
к	± 10 %	z	+ 80 %

Values (eighth - tenth digits)

		3.14,	
	ole: Values are in pic		
101	10×10 ¹	pF	100 pF
			1,000 pF (0.001 µF)
			10,000 pF (0.01 μF)
104	10 × 10 ⁴	pF	100,000 pF (0.1 μF)
105	10 × 10 ⁵	pF	1 μF
5RO			5.0 pF

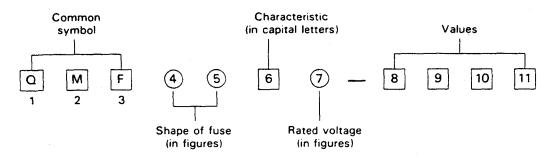
Assistant code (eleventh digit)

G Small size

Z Lead tapingY Lead taping

6.1.3 Fuse coding

Standard fuse part numbers are as follows.



Ch	at turn	Rate	d voltage	Values
	of fuse and fifth digits)		nth digit)	(eighth-tenth or eleventh digits)
51	φ5.2 × 20 mm	1	AC125 V	example:
60	φ6.4 × 30 mm	2	AC 250 V	R63 0.63 A
61	$\phi 6.35 \times 31.8 \text{ mm}$	3	0.1-1 A: AC250 V	1R0 1.0 A
63	φ6.4 × 30 mm with lead wires		1.25-6.3 A: AC125 V	2R5 2.5 A
66	$\phi 6.35 \times 31.8$ mm with lead wires			100 10 A
00	Special type			R315 0.315 A
				1R25 1.25 A

Characteristics (sixth digit)

Symbol	ymbol Fusing Current Fusing Time		Remarks		
	210 %	Within 2 min.			
Ā	275 %	0.6 - 10 sec.	Anti-rush type (for Europe)		
Α	400 %	0.15 - 3 sec.			
	1000 %	0.02 - 0.3 sec.			
	210 %	Within 30 min.	Regular fusible type (for SEMKO, Europe)		
В	275 %	0.05 - 2 sec.			
	400 %	0.01 - 0.3 sec.			
	135 %	Within 1 hr.	Paralas fusible tune /for III tanes		
С	200 %	Within 2 min.	Regular fusible type (for UL, Japa		
	210 %	Within 2 min.	Anti-rush type (for Europe)		
. <u>_</u>	275 %	0.6 - 10 sec.			
E	400 %	0.15 - 3 sec.			
	1000 %	0.02 - 0.3 sec.			
	135 %	Within 1 hr.	A and a such that		
J	200 %	Within 2 min.	Anti-rush type		
	135 %	Within 1 hr.	Regular fusible type (for UL)		
M	200 %	Within 2 min.			
	160 %	Within 1 hr.	Regular fusible type		
R	200 %	Within 2 min.			
	160 %	Within 1 hr.	Anti-rush type		
S	200 %	Within 2 min.			
	700 % - 2000 %	Within 0.01 sec.			
	135 %	Within 1 hr.			
U .	200 %	Within 2 min.	Anti-rush type (for UL)		
	800 % - 2000 %	Within 0.01 sec.			

# <i>i</i>				PART NAME, DESCRIPTION				PART NO.	PART NAME, DESCRIPTION
(* % **********************************						R6 R7 R9		QRG029J-201 QRZ0078-R39 QVZ3507-101	OMF RESISTOR WW RESISTOR
*************								•	
* 5. POWER SUPPLY BOARD ASSY<01><02> <01> * ***********************************						RIl		QRD161J-333	RESISTOR
						Cl		QFZ9022-683	MM CAPACITOR
				CULTURE DECUMENTOD DOLONG LOCK		C7		QCZ9016-222M	CAPACITOR
	PWBA		PGE10144A	SWITCHING REGULATOR BOARD ASSY	_ <u>^</u> ^		UK	QCZ9048-222	CAPACITOR
	CTVI		DU44457	STICKED		C8		QCZ9016-222M	CAPACITOR
4	STK1		PU44457	STICKER	<u> </u>	C9	UK	QCZ9048-222	CAPACITOR
	AD1		PGZ00760	AC INLET		C10		QED61HM-226 QEZ0111-107	E CAPACITOR E CAPACITOR
	A02		PU52931	CONNECTOR COVER		CIU		QE20111-101	E CAPACITOR
	702		. 032/01	301.1125.31 337EK		C11		QCY53AK-472	CAPACITOR
Æ	BKT1		PRD20225	TRANS BRACKET		C12		QCY43AK-121	CAPACITOR
_						C13		QFL41HJ-222	M CAPACITOR
Δî	ETH1		PRD42862-01-01	EARTH BRACKET		C14		QFV41HJ-474	TF CAPACITOR
-						C15		QEZ0108-187Z	E CAPACITOR
Δ	HS1		PQ43230	HEAT SINK(2)	Δ	C17		QCZ9016-102K	CAPACITOR
					Æ		DR	QCZ9047-102	CAPACITOR
	SCW1		DPSP4008Z	ASSY SCREW	ΔÂ	C18		QCZ9016-102K	CAPACITOR
	SCW2		DPSP3008Z	ASSY SCREW, X2	Δ		OR	QCZ9047-102	CAPACITOR
	SCW3		DPSP3012Z	SCREW, X2					
	SCW4		SDST3006Z	SCREW, X3		C31		QEZ0125-228	E CAPACITOR
	SCW5		SBSB3008Z	SCREW, X3 SCREW, X2		C32		QEZ0106-338	E CAPACITOR
	SCW6 SCW7		SBSB3006Z LPSP4008Z	SCREW, AZ		C33		QEZ0104-476Z QEZ0107-476Z	
	SUWI		LF3F40082	SCREW		C35		QETB1EM-108	E CAPACITOR E CAPACITOR
	SLD1		PQ32071	SHILD CASE(2)		C36		QETB1EM-108	E CAPACITOR
			. 4000. 1			C37		QETB1AM-108	E CAPACITOR
Δ	SPC1		PQ43773	SHEET(AC)		C38		QETC1JM-226	E CAPACITOR
						C39		QETC1HM-226	
À	, F1		QMF51E2-1R25	FUSE		C40		QFL41HJ-102	M CAPACITOR
	-SWITCHING P.S BOARD ASSY <01>-			C41		QFL41HJ-102	M CAPACITOR		
	STKl		PRD42564-13	PWB LABEL		L11		PU56183-330	COIL
	STK2		PRD42564-16	LABEL		L12		PU56183-330	COIL
						L13		PU56183-330	COIL
	PWBA1		PGE10144A1	SWITCHING BOARD ASSY		L14		PU48530-101K	COIL
	701		OTD D170/	T.C.		L15		PU48530-101K	COIL
	IC1		STR-D1706	IC		L16 L17		PU48530-8R2K	COIL
	D1		10E6-F2	DIODE		LII		PU48530-8R2K	COIL
	D2		10E6-F2	DIODE	A	Tl		PU60683	SWITCHING TRANSFORMER
	D3		10E6-F2	DIGDE	, <u>.</u>	• •			ONE CONTENT OF THE PROPERTY OF
	D4		10E6-F2	DIODE	Δ	HSI		PQ43231-1-1	HEAT SINK(3)
	D5		RUIA	FR DIODE		HS2		PU60798	HEAT SINK
	D6		RUIA	FR DIODE					
	D7		AU01Z	FR DIODE	Δì	LF2		PU60347	LINE FILTER
		OR	ERA48-02	FR DIODE			_		
	D8	^-	AU01Z	FR DIODE		SLD	1	PQ32558-1-1	SHIELD CASE(1)
.0	_ D9	UK	ERA48-02 AUG1Z	FR DIODE FR DIODE		CNI		DITE 8 8 4 4 9	CAP HOUSING
	2 D10		AU01Z	FR DIODE		CN2		PU58844-9 PU58844-3	CAP HOUSING
4	2 010		A0012	1 W D1050		OITE		1 0 3 0 0 4 4 5	CAF HOUSING
	D11		F6P20F	FR DIODE				-REGULATOR	BOARD ASSY<02>-
		OR	FML-12S	FR DIODE					
	D12		F5KQ40B	BARRIER DIODE		STK	1	PRD42564-14	PWB LABEL
		OR	FMB-24	BARRIER DIODE					
	D13		AU01Z	FR DIODE		PWB.	A2	PGE10144A2	REGULATOR BOARD ASSY
		OR	ERA48-02	FR DIODE					
	D14		AU01Z	FR DIODE		IC2		BA10324	IC
		OR	ERA48-02	FR DIODE		IC3		MC7805ACT	IC
	D15		RD16ES-T1B2	ZENER DIODE		701	0.1	ME44471	TC.
	nae		AU01Z	FR DIODE		IC1	O I	M54647L	IC
	D28		MOUIZ	IN DIODE		Q11		2SD1764	TRANSISTOR
	R1		QRZ0078-2R2	WW RESISTORR		#11		2SD1784 2SD1796	TRANSISTOR
	R2		QRD181J-334	RESISTOR		Q12		2SC1740S	TRANSISTOR
	R3		QRD181J-334	RESISTOR		Q13		2SD1764	TRANSISTOR
	R4		QRG029J-104	OMF RESISTOR				2SD1796	TRANSISTOR
	R5		QRD161J-104	RESISTOR		Q14		2SD1764	TRANSISTOR

	DIOT NO	DART NAME DESCRIPTION	1 #4 055 110	DART NO	DART MANE DECOMETETAN
	NO. PART NO.	PART NAME, DESCRIPTION	1	. PART NO. 	PART NAME, DESCRIPTION
	OR 2SD1796	TRANSISTOR	C52	QETC1HM-476	E CAPACITOR
Q15	2SD1764	TRANSISTOR	C53	QETC1CM-107	E CAPACITOR
7	OR 2SD1796	TRANSISTOR	C54	QETC1HM-106	E CAPACITOR
Q16	2SB1186(DE)	TRANSISTOR	C55	QFN31HJ-103	M CAPACITOR
À Q17	2SA720	TRANSISTOR	C56	QFN31HJ-103	M CAPACITOR
	DTA114ES	TRANSISTOR	C57	QETC1AM-107	E CAPACITOR
Q18	DIATITES	TRANSISTOR	C58		
	PD/ DES. T107	ZENER RIORE		QETC1HM-226	E CAPACITOR
D16	RD6.2ES-T183	ZENER DIODE	C59	QETC1HM-226	E CAPACITOR
D17	RD5.1ES-T1B2	ZENER DIODE	C60	QETC1HM-226	E CAPACITOR
D19	HZ6B1TE	DIODE			
	OR HZ6BITJ	DIODE	C101	QETC1EM-476	E CAPACITOR
D20	RD13ES-T1B3	DIODE	C102	QETC1HM-105	E CAPACITOR
			i		
D21	HZS33EB1	ZENER DIODE	L18	PU53618-101J	COIL
D23	188133	DIODE	1		
	OR MA165	DIODE	M HD3	PU57505	FUSE CLIP, X2
D24	188133	DIODE			
	OR MA165	DIODE	HS1	PQ43701-1-1	HEAT SINK
D25	188133	DIODE			
	OR MA165	DIODE	A LF1	PU60020	LINE FILTER
D26	188133	DIODE	1		
020	OR MA165	DIODE	⚠ TAB1	A74316	TAB, X2
D27	RD20ES-T1B2	ZENER DIODE			
027			TP1	PU55774	TEST PIN, X4
	OR MTZ20BT-77	ZENER DIODE	'''	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(EU) FIR) AT
	0003/31 000	RECTOTOR	1	DUEDOA/ 300	CAR HOHETHE
R14	QRD161J-222	RESISTOR	CN4	PU58844-102	CAP HOUSING
R15	QRD161J-362	RESISTOR .	CN5	PU58844-102R	CAP HOUSING
R16	QRD161J-472	RESISTOR	CN6	PU58844-107	CAP HOUSING
R17	QRD161J-102	RESISTOR	CN7	PU58844-105	CAP HOUSING
Ř18	QRD161J-622	RESISTOR	CN8	PU58844-108	CAP HOUSING
R19	QRD161J-472	RESISTOR	CN9	PU58844-103R	CAP HOUSING
R20	QRD161J-102	RESISTOR	CN10	PU58844-103R	CAP HOUSING
			Ì		
R21	QRD161J-153	RESISTOR	CN11	PU58844-103	CAP HOUSING
R22	QRD161J-472	RESISTOR	CN12	PU58844-108	CAP HOUSING
R23	QRD161J-102	RESISTOR	CN13	PU58844-103Y	CAP HOUSING
R24	QRD161J-102	RESISTOR			
R25	QRD161J-153	RESISTOR	A CP1	ICP-F25	CIRCUIT PROTECTOR
R26	QVZ3521-222	V RESISTOR, SW 5V ADJ	A CP2	ICP-F25	CIRCUIT PROTECTOR
R27	QRD161J-223	RESISTOR	⚠ CP3	ICP-F20	CIRCUIT PROTECTOR
R28	QRD161J-222	RESISTOR	△ CP4	ICP-F20	CIRCUIT PROTECTOR
R29	QRD161J-103	RESISTOR	1 2 3. 7	10, 120	OZNOOZI INGILOTON
R30	QRD161J-392	RESISTOR	A CP101	ICP-F25	CIRCUIT PROTECTOR
1,00	Q. D. 2010 0/2			10. 125	01110011 1 11012010
R31	QRD161J-102	RESISTOR	******	*****	**********
R32	QRD161J-472	RESISTOR			
R33	QRD161J-331	RESISTOR			
R34	QRD161J-272	RESISTOR		*******	*********
			× × ×	6. MAIN BOAR	
<u></u>	QRZ0077~220X	FUSIBLE RESISTOR			
∆ R36	QRZ0077-220X	FUSIBLE RESISTOR	***	******	*************
0.47	000761 797	RESISTOR			
R43	QRD161J-392		PWBA	PRK10032A-01	MATN BOARD ACCV
R44	QRD181J-1R0	RESISTOR	FWDA	FRK10032A-01	MAIN BOARD ASSY
R45	QRD181J-1R0	RESISTOR		0001411 000	DECTATOR .
R46	QRD181J-1RO	RESISTOR	B112	QRD161J-ORO	RESISTOR
R47	QRD181J-1R0	RESISTOR			
R48	QRD181J-1R0	RESISTOR	HN1	PU58018-1-2	PWB HINGE, X2
R49	QRD181J-1RO	RESISTOR		•	
R50	QRD181J-1R0	RESISTOR	SPC1	PU60010	SPACER, X4
]		
R51	QRD181J-1R0	RESISTOR	CN1	PU58844-3	CAP HOUSING
R52	QRD181J~562	RESISTOR	CNS	PU58844-2	CAP HOUSING
R53	QRD181J-562	RESISTOR	CN3	PU58844-4R	CAP HOUSING
			CN4	PU58844-5	CAP HOUSING
C43	QFN31HJ-103	M CAPACITOR	CN5	PU58844-5	CAP HOUSING
C44	QETC1CM-107	E CAPACITOR	CN6	PU58844-4	CAP HOUSING
C45	QETC1HM-106	E CAPACITOR	CN7	PU58844-5	CAP HOUSING
C46	QFN31HJ-103	M CAPACITOR	CN8	PU58844-2Y	CAP HOUSING
C47	QFN31HJ-103	M CAPACITOR	CN9	PU58844-2	CAP HOUSING
C48	QETC1CM-107	E CAPACITOR	CN10	PU58844-2	CAP HOUSING
C49	QFN31HJ-103	M CAPACITOR	1		
C50	QFN31HJ-103	M CAPACITOR	CN11	PU58844-5Y	CAP HOUSING
050	g 100	un notion	CN12	PU58844-8	CAP HOUSING
C51	QETC1AM-107	E CAPACITOR	CN12	PU58844-4	CAP HOUSING
C5 I	MEIGTWII-IOI	- OHI MOTION	I ONTO	, 0500-4-4	ON HOUSEN

<i>i</i> :#	REF NO.	PART NO.	PART NAME, DESCRIPTION	*^	REF	NO.	PART NO.	PART NAME, DESC	
		PU58844-4R	CAP HOUSING		Q56		DTA124ES	TRANSISTOR	
	CN14	PU58844-4	CAP HOUSING		Q57		2SC1740S(QRS)	TRANSISTOR	
	CN15		CAP HOUSING						
	CN16	PU58844-3			Dl		188133	DIODE	
	CN17	PU58844-6	CAP HOUSING		01	ΩP	MA165	DIODE	
		050	****		DZ	OK	188133	DIODE	
		-VIDEO Y SEC	110N-		UZ	0.0		DIODE	
						UK	MA165		
	ICl	PB20291A	Y MODULE BOARD ASSY		D3		188133	DIODE	
	IC3	M51288SP	IC			ŲR	MA165	DIODE	
	IC6	PB20290A-02	JOG MOD.(JA059)		D4		1SS133	DIODE	
	IC7	M52055P	IC			OR	MA165	DIODE	
	IC10	PB20298A	Y MODULE BOARD ASSY		D5		188133	DIODE	
				Ì		OR	MA165	DIODE	
	IC11	PB20286A-02	YNR MODULE BOARD ASSY		D6		188133	DIODE	
	IC12	VC2063S	IC	i		OR	MA165	DIODE	
	IC13	TC74HC04AP	IC		D7		188133	DIODE	
		MC74HC04AN	IC			OR	MA165	DIODE	
	IC14	AN6041	IC	l	D8		188133	DIODE	
	IC15	BA7021	IC			OR	MA165	DIODE	· Control of the cont
	1016	BU4066B	IC	1	D10		188133	DIODE	
	1018	NJM2233BD	IC			OR	MA165	DIODE	
	1019	NJM2233BD	IC					•	
	IC20	7VT05	IC		D11		188133	DIODE	
	1020	74.05		l		OR	MA165	DIODE	
	00	DTC124ES	TRANSISTOR		D12		188133	DIODE	
	Q2	2SC1740S(QRS)	TRANSISTOR				MA165	DIODE	
	Q4	2SC1740S(QRS)	TRANSISTOR		D13		188133	DIODE	
	Q5		TRANSISTOR				MA165	DICDE	
	Q7 [°]	DTC124ES	TRANSISTOR		D20		OA9OUF	DIODE	
	Q9	2SA933S	IKANSISTOR		020		0117001		
		00017(00(000)	TRANSTETER	1	D21		OA9OUF	DIODE	
	Q12	2SC1740S(QRS)	TRANSISTOR	l	DZZ		188133	DIODE	
	Q13	2SC1740S(QRS)	TRANSISTOR		ULL		MA165	DIODE	
	Q14	2SA933S	TRANSISTOR	l	D23		188133	DIODE	
	Q15	2SA933S	TRANSISTOR		UZS		MA165	DIODE	
	Q16	2SA933S	TRANSISTOR	1	D24		188133	DIODE	
	Q17	DTC124ES	TRANSISTOR	1	524		MA165	DIODE	
	Q18	2SK381(C)	FE TRANSISTOR	i	D26		188133	DIODE	
	Q19	2SA933S	TRANSISTOR	ł	026			DIODE	
	Q20	2SC1740S(QRS)	TRANSISTOR	ł	-		MA165		
				l	D27		1SS133	DIODE	
	Q21	2SC1740S(QRS)	TRANSISTOR	ļ	000		MA165	DIODE	
	Q22	DTC144ES	TRANSISTOR	1	D29		1SS133	DIODE	
	Q23	2SA933S	TRANSISTOR	1		UN	MA165	DIGOL	
	Q24	2SA933S	TRANSISTOR	1	D71		100177	DIODE	
	Q25	2SA933S	TRANSISTOR	1	D31		1SS133	DIODE	
	Q26	2SC1740S(QRS)	TRANSISTOR	1			MA 165		
	Q27	DTC124ES	TRANSISTOR	1	D32		188133	DIODE	
	Q29	DTA124ES	TRANSISTOR	1			MA165	DIODE	
	Q30	2SC1740S(QRS)	TRANSISTOR	Į	D34		RD9.1ES-T1B2	ZENER DIODE	
				1	035		188133	DIODE	
	Q33	2SA933S	TRANSISTOR	1		UK	MA165	DIODE	
	Q34	2SC1740S(RS)	TRANSISTOR		ь.		0001/11 5/2	DECTOTOR	
	Q35	2S8851Q,R	TRANSISTOR	1	R1		QRD161J-562	RESISTOR	
	Q36	DTA124ES	TRANSISTOR	1	R2		QRD161J-822	RESISTOR	
	Q37	DTA124ES	TRANSISTOR	1	R4		QRD161J-182	RESISTOR	
	Q38	DTC124ES	TRANSISTOR	1	R6		QRD161J-681	RESISTOR	
	Q39	2SC3313CTA	TRANSISTOR	1	R7		QRD161J-223	RESISTOR	
	Q40	2SC3313CTA	TRANSISTOR	1	R8		QRD161J-273	RESISTOR	
	-				R9		QRD161J-223	RESISTOR	
	Q41	2SC1740S(QRS)	TRANSISTOR	1	R10)	QRD161J-681	RESISTOR	
	Q42	2SC2647C	TRANSISTOR	ĺ					
	Q43	2SC2647C	TRANSISTOR	1	RII	L	QRD161J-331	RESISTOR	
	Q45	2SC1740S(QRS)	TRANSISTOR	1	R12	2	QRD161J-331	RESISTOR	
	Q46	2SA933S	TRANSISTOR	1	R13	5	QRD161J-475	RESISTOR	
	Q47	2SC1740S(QRS)	TRANSISTOR	1	R14	ŧ	QRD161J-102	RESISTOR	
	Q48	2SC1740S(QRS)	TRANSISTOR		R17		QRD161J-821	RESISTOR	
	Q49	2SA933S	TRANSISTOR		R18		QRD161J-102	RESISTOR	
		2SA933S	TRANSISTOR	1	R19		QRD161J-222	RESISTOR	
	Q50	_3A/333							
	063	25.402.25	TRANSISTOR		R25	5	QRD161J-562	RESISTOR	
	Q51	2SA933S	TRANSISTOR	1	R26		QRD121J-181	RESISTOR	
	Q52	2SC1740S(QRS)	TRANSISTOR	1	R27		QVZ3518-102	V.R,0.25H DL V	IDEO LEVEL
	Q53	DTC124ES	TRANSISTOR	1	R28		QRD161J-471	RESISTOR	-
	Q54	DTC144ES	TRANSISTOR		R29		QRD161J-821	RESISTOR	
	Q55	2SA933S	1100000100	•					

#A REF NO.	PART NO.	PART NAME, DESCRIPTION	#A REF NO.	PART NO.	PART NAME, DESCRIPTION
R30	QRD161J-561	RESISTOR	R109 R110	QRD161J-223 QVZ3518-473	RESISTOR V RESISTOR,2H DL CHROMA
R31	QRD161J-471	RESISTOR	}		
R32	QRD161J-153	RESISTOR	R111	QRD161J-223	RESISTOR
R33	QRD161J-561	RESISTOR	. R112	QRD161J-391	RESISTOR
R34	QRD161J-182	RESISTOR	R113	QRD161J-391	RESISTOR
R35	QRD161J-102	RESISTOR	R114	QRD161J-391	RESISTOR
R36	QRD161J-221	RESISTOR	R115	QRD161J-391	RESISTOR
R37	QRD161J-271	RESISTOR	R116	QRD161J-391	RESISTOR
R38	QRD161J-471	RESISTOR	R117	QRD161J-223	RESISTOR
		RESISTOR			
R39	QRD161J-152		R118	QVZ3520-223	V RESISTOR, Y COMB GAIN
R40	QRD161J-152	RESISTOR	R119	QVZ3520-472	V RESISTOR, Y COMB PHASE
			R120	QRD161J-102	RESISTOR
R41	QRD161J-562	RESISTOR			
R42	QVZ3518-103	V.R,SHARPNESS PRESET	R122	QRD161J-102	RESISTOR
R43	QRD161J-103	RESISTOR	R123	QRD161J-102	RESISTOR
R45	QRD161J-331	RESISTOR	R124	QRD161J-102	RESISTOR
R47	QRD161J-182	RESISTOR	R125	QRD161J-102	RESISTOR
R48	QRD161J-391	RESISTOR	R126	QRD161J-102	RESISTOR
R49	QRD161J-152	RESISTOR	R127	QRD161J-473	RESISTOR
			R128	QRD161J-562	RESISTOR
R50	QRD161J-102	RESISTOR			
			R129	QRD161J-103	RESISTOR
R51	QRD161J-153	RESISTOR	R130	QRD161J-393	RESISTOR
R52	QRD161J-683	RESISTOR			
R53	QRD161J-122	RESISTOR	R131	QRD161J-272	RESISTOR
855	QRD161J-102	RESISTOR	R133	QRD161J-224	RESISTOR
R57	QRD167J~102	RESISTOR	R135	QRD161J-473	RESISTOR
R58	QRD161J-ORO	RESISTOR	R136	QRD161J-393	RESISTOR
R60	QRD161J-273	RESISTOR	R137	QRD161J-153	RESISTOR
,,,,,,	4.02020 2.0		R138	QRD161J-561	RESISTOR
D 2 1	0001411-227	RESISTOR	R139	QRD161J-182	RESISTOR
R61	QRD161J-223				
R62	QRD161J-222	RESISTOR	R140	QRD161J-271	RESISTOR
R63	QRD161J-102	RESISTOR			
R64	QRD161J-102	RESISTOR	R141	QRD161J-223	RESISTOR
R65	QRD161J-152	RESISTOR	R142	QRD161J-392	RESISTOR
R66	QRD161J-561	RESISTOR	R145	QRD161J-562	RESISTOR
R67	QRD161J-821	RESISTOR	R146	QRD161J-682	RESISTOR
R68	QRD161J-471	RESISTOR	A R147	QRD121J-680	RESISTOR
R69	QRD161J-123	RESISTOR	R148	QRD161J-271	RESISTOR
R70	QRD161J-473	RESISTOR	R149	QRD161J-101	RESISTOR
K / O	WKD1010 470	KEGIGIGK	R150	QRD161J-101	RESISTOR
R71	QRD161J-122	RESISTOR	1 1150	WKD1610 101	RESISTOR
			0151	0001411-707	RESISTOR
R72	QRD161J-102	RESISTOR	R151	QRD161J-393	
R73	QRD161J-822	RESISTOR	R152	QRD161J-822	RESISTOR
R74	QRD161J-182	RESISTOR	R153	QRD161J-122	RESISTOR
R75	QVZ3518-102	V RESISTOR, EE Y LEVEL	R154	QRD161J-271	RESISTOR
R76	QRD161J-272	RESISTOR	R155	QRD161J-222	RESISTOR
R77	QRD161J-332	RESISTOR	R156	QRD161J-221	RESISTOR
R78	QRD161J-183	RESISTOR	R157	QRD161J-221	RESISTOR
R79	QRD161J-222	RESISTOR	1		
R80	QRD161J-681	RESISTOR	R161	QRD161J-222	RESISTOR
			R163	QVZ3518-681	V.R,O.25H DL VIDEO LEVEL
R81	QRD161J-223	RESISTOR	R164	QRD161J-102	RESISTOR
R82	QRD161J-393	RESISTOR	R165	QRD161J-102	RESISTOR
R83	QRD161J-153	RESISTOR	R166	QRD161J-151	RESISTOR
R84	QRD161J-154	RESISTOR	R167	QRD161J-102	RESISTOR
				QRD161J-102	RESISTOR
R85	QRD161J-124	RESISTOR	R168		
R87	QRD161J-394	RESISTOR	R169	QRD161J-223	RESISTOR
R88	QRD161J-475	RESISTOR	R170	QRD161J-153	RESISTOR
R89	QRD161J-562	RESISTOR	1		
			R173	QRD161J-472	RESISTOR
R91	QVZ3518-473	V RESISTOR, PB Y LEVEL	R175	QRD161J-331	RESISTOR
R93	QRD161J-223	RESISTOR	R176	QRD161J-392	RESISTOR
R94	QRD161J-182	RESISTOR	R177	ERT-D2FHL332S	THERMISTOR
R95	QVZ3518-222	V RESISTOR, C.REC FM LEVEL	R178	QRD161J-272	RESISTOR
R96	QRD161J-122	RESISTOR	R179	QRD161J-223	RESISTOR
				QRD161J-122	RESISTOR
R97	QRD161J-103	RESISTOR	R180	#V01017_155	VE21210V
R98	QRD161J-223	RESISTOR		0001411 540	DECTOTOR
R99	QRD161J-681	RESISTOR	R181	QRD161J-562	RESISTOR
			R184	QRD161J-272	RESISTOR
R105	QRD161J-331	RESISTOR	R185	QRD161J-471	RESISTOR
R106	QRD161J-102	RESISTOR	R186	QRD161J-391	RESISTOR
R107	QVZ3518-151	V RESISTOR, Y COMB LEVEL	R187	QRD161J-621	RESISTOR
R108	QVZ3518-473	V RESISTOR,4H DL CHROMA	R188	QRD161J-392	RESISTOR

A #	REF NO.	PART NO.	PART NAME, DESCRIPTION	#∆	REF NO.	PART'NO.	PART NAME, DESCRIPTION
	R189 R190	QRD161J-181 QRD161J-821	RESISTOR RESISTOR		C49 C50	QETC1CM-106 QCVB1CN-103	E CAPACITOR CAPACITOR
	R191	QRD161J-222	RESISTOR		C51	QCSB1HJ-390	CAPACITOR
	R192	ERT-D2FGL102S	THERMISTOR		C52	QCVB1CN-103	CAPACITOR
	R193	QRD161J-473	RESISTOR		C53	QETC1CM-476	E CAPACITOR
	R194	QRD161J-473	RESISTOR	i	C54	QETC1CM-106	E CAPACITOR
	R195	QRD161J-561	RESISTOR	1	C55	QEK61CM-106	E CAPACITOR
	R196	QRD161J-561	RESISTOR	l	C56	QEK61CM-106	E CAPACITOR
	R197	QVZ3520-471	V RESISTOR, Y COMB ADJ		C57	QEK61CM-106	E CAPACITOR
	R198	QRD161J-103	RESISTOR		C58	QEK61CM-106	E CAPACITOR
	R199	QRD161J-121	RESISTOR		C6B	QEK61CM-476	E CAPACITOR
	R200	QRD161J-102	RESISTOR				
					C61	QCVB1CN-103	CAPACITOR
	R201	QRD161J-332	RESISTOR	l	C62	QCSB1HJ-470	CAPACITOR
	R204	QRD161J-102	RESISTOR	l	C63	QCVB1CN-103	CAPACITOR
	R205	QRD161J-102	RESISTOR	1	C64	QCS31HJ-220	CAPACITOR
A	R206	QRD121J-680	RESISTOR	l	C65	QEK60JM-476	E CAPACITOR
	R209	QRD161J-474	RESISTOR	1	C66	QEK61CM-106	E CAPACITOR
	R210	QRD161J-101	RESISTOR		C67	QCVB1CN-103	CAPACITOR
		411010 101			C68	QEK61CM-106	E CAPACITOR
	0211	0001411-101	RESISTOR		000	denoion ioo	L ON AULION
	R211 R212	QRD161J-101 QRD161J-122	RESISTOR	ĺ	C74	QCSB1HJ-560	CAPACITOR
				1			
	R213	QRD161J-182	RESISTOR V.R,B/W REC FM LEVEL	Ι ΄	C76	QETC0JM-476	E CAPACITOR
	R214	QVZ3518-222			007	000001111 100	0.0407700
	R217	QRD161J-473	RESISTOR		C84	QCBB1HJ-121	CAPACITOR
	R218	QRD161J-103	RESISTOR		C85	QCSB1HJ-560	CAPACITOR
	R219	QRD161J-821	RESISTOR	1	C86	QEK61CM-106	E CAPACITOR
					C87	QCSB1HJ-150	CAPACITOR
	R223	QRD161J-103	RESISTOR	1	C88	QEK61HM-225	E CAPACITOR
	R224	QRD161J-102	RESISTOR	1	C89	QEK61CM-106	E CAPACITOR
	R226	QRD161J-181	RESISTOR		C90	QEK51CM-476	E CAPACITOR
	R227	QRD161J-561	RESISTOR	ŀ			
	R229	QRD161J-0R0	RESISTOR	l	C91	QCVB1CN-103	CAPACITOR
	R230	QRD161J-102	RESISTOR		C92	QETC1CM-106	E CAPACITOR
				1	C93	QCBB1HJ-101	CAPACITOR
	R231	QRD161J-750	RESISTOR		C94	QCSB1HJ-270	CAPACITOR
		GREIDIO 150		1	C95	QCSB1HJ-180	CAPACITOR
	C1	QCSB1HJ-560	CAPACITOR		C96	QETC1HM-335	E CAPACITOR
	CZ		CAPACITOR	l	C97	QCBB1HJ-151	CAPACITOR
		QCBB1HJ-101		l	C98		
	C3	QCBB1HJ-181	CAPACITOR			QETC1HM-105	E CAPACITOR
	C4	QETC1EM-475	E CAPACITOR	l	C99	QED60JM-127	E CAPACITOR
	C5	QETC1HM-224	E CAPACITOR	}	C100	QCVB1CN-103	CAPACITOR
	C6	QETCOJM-337	E CAPACITOR			05710 14 777	
	C7	QCVB1CN-103	CAPACITOR		C101	QETAOJM-337	E CAPACITOR
	C8	QCSB1HJ-560	CAPACITOR		C102	QCSB1HJ-120	CAPACITOR
	C9	QENC1HM-105	NP E CAPACITOR	l	C103	QCSB1HJ-560	CAPACITOR
	C10	QCVB1CN-103	CAPACITOR		C104	QCSB1HJ-560	CAPACITOR
				1	C105	QCVBICN-103	CAPACITOR
	C11	QCSB1HJ-680	CAPACITOR		C108	QCVB1CN-103	CAPACITOR
	C13	QCVB1CN-103	CAPACITOR	ļ	C109	QCBB1HJ-101	CAPACITOR
	C14	QETC1HM-225	E CAPACITOR	ł	C110	QCVB1CN-103	CAPACITOR
	C16	QCBB1HJ-181	CAPACITOR	ŀ			
	C17	QCBB1HJ-391	CAPACITOR		C111	QETCOJM-476	E CAPACITOR
	C18	QETC1HM-225	E CAPACITOR		C112	QCVB1CN-103	CAPACITOR
	C19	QETC1CM-106	E CAPACITOR	l	C113	QCBB1HJ-101	CAPACITOR
	• • • • • • • • • • • • • • • • • • • •	42101011 100			C114	QCVB1CN-103	CAPACITOR
	C25	QCVB1CN-103	CAPACITOR		C115	QCVB1CN-103	CAPACITOR
	C26	QCVB1CN-103	CAPACITOR		C116	QCBB1HJ-101	CAPACITOR
	C27	QCVB1CN-103	CAPACITOR		C117	QCVB1CN-103	CAPACITOR
			E CAPACITOR		C118	QCVB1CN-103	CAPACITOR
	C29	QETC1EM-475					
	C30	QCVB1CN-103	CAPACITOR		C119	QCVB1CN-103	CAPACITOR
			- 410107700	ł	C120	QCVB1CN-103	CAPACITOR
	C31	QEK61EM-475	E CAPACITOR				
	C32	QEK61EM-475	E CAPACITOR	l	C121	QEK61CM-106	E CAPACITOR
	C33	QER61AM-226	E CAPACITOR	I	C122	QCVB1CN-103	CAPACITOR
	C34	QETCOJM-337	E CAPACITOR		C123	QETC1HM-105	E CAPACITOR
	C35	QCVB1CN-103	CAPACITOR		C124	QCVB1CN-103	CAPACITOR
	C36	QEP61EM-475	NP E CAPACITOR		C125	QETC1CM-476	E CAPACITOR
	C37	QER61EM-475	E CAPACITOR		C126	QEK61AM-476	E CAPACITOR
	C38	QCVB1CN-103	CAPACITOR		C127	QCVB1CN-103	CAPACITOR
			·		C130	QETCOJM-476	E CAPACITOR
	C43	QEK61CM-106	E CAPACITOR		-		
	C44	QCVB1CN-103	CAPACITOR		C131	QCVB1CN-103	CAPACITOR
			•		_		

#4		PART NO.	PART NAME, DESCRIPTION	*A		. PART NO.	PART NAME, DESCRIPTION
	C132	QETCIAM-476	E CAPACITOR		L11	PU48530-101K	COIL
	C133	QCVB1CN-103	CAPACITOR		L12	PU48530-101K	COIL
	C134	QCVB1CN-103	CAPACITOR		L13	PU59152-220J	COIL
	C135	QETC1CM-476	E CAPACITOR		L14	PU48530-101K	COIL
	C136	QCVB1CN-103	CAPACITOR		L15		
	C137	QETC1CM-476	E CAPACITOR			PU48530-101K	COIL
	C137		CAPACITOR		L16	PU59152-820J	COIL
		QCVB1CN-103 QCVB1CN-103			L19	PU48530-101K	COIL
	C139		CAPACITOR		L20	PU48530-471K	COIL
	C140	QETCOJM-476	E CAPACITOR				
			*****		L21	PU59152-150J	COIL
	C141	QCVB1CN-103	CAPACITOR		L22	PU48530-101K	COIL
	C142	QEN61HM-105	NP E CAPACITOR		L23	PU48530-471K	COIL
	C143	QETC1HM-104	E CAPACITOR		L24	PU48530-560J	COIL
	C144	QCVB1CN-103	CAPACITOR		L25	PU48530-471J	COIL
	C146	QCSB1HJ-220	CAPACITOR		L26	PU59152-121J	COIL
	C147	QCBB1HJ-101	CAPACITOR		L27	PU48530-101K	COIL
	C148	QCVB1CN-103	CAPACITOR		L28	PU48530-101K	COIL
	C149	QCSB1HJ-560	CAPACITOR		L29	PU48530-101K	COIL
	C150	QCSB1HJ-390	CAPACITOR		L30	PU60165-8R2G	COIL
	C151	QCVB1CN-103	CAPACITOR		L31	PU60165-8R2G	COIL
	C152	QEK61CM-336	E CAPACITOR		L32	PU48530-101K	COIL
	C153	QCSB1HK-5R6	CAPACITOR		L33	PU59152-180J	COIL
	C154	QCSB1HJ-390	CAPACITOR		L35	PU59152-1ROK	COIL
	C155	QCSB1HJ~120	CAPACITOR		L36	PU59152-1ROK	COIL
	C156	QCSB1HJ-100	CAPACITOR		L38	PU59152-5R6J	COIL
	C159	QCVB1CN-103	CAPACITOR		L39	PU48530-101K	COIL
	C160	QCBB1HJ-151	CAPACITOR		L40	PU59152-820J	COIL
							0011
	C165	QEK61CM-476	E CAPACITOR		L41	PU59152-101J	COIL
	C166	QCVB1CN-103	CAPACITOR		L43	PU48530-101K	COIL
	C167	QETC1CM-107	E CAPACITOR		L44	PU59152-151J	COIL
	C168	QCVB1CN-103	CAPACITOR		L46	PU48530-101K	COIL
	C169	QETC1CM-106	E CAPACITOR		L47	PU48530-470J	COIL
		42172211 221				, 646500 4700	3012
	C171	QCVB1CN-103	CAPACITOR		EQ1	PU60099	EQUALIZER
	C172	QCVB1CN-103	CAPACITOR		EQ2	PU60809	EQUALIZER
	C173	QCT25CH-470	CAPACITOR		EQ3	PU60810	EQUALIZER
	C174	QCBB1HJ-471	CAPACITOR			, 000010	- dour tree.
	C175	QCC31CJ-563	CAPACITOR		LPF2	PGZ00183	LOW PASS FILTER
	C178	QCVC1CN-103	CAPACITOR		LPF3	PU60806-2	LOW PASS FILTER
	C179	QCSB1HJ-470	CAPACITOR		2	. 000000 2	COR 1 AGG 1 IEIER
	C180	QCSB1HJ-220	CAPACITOR		BPF2	PU60921	BAND PASS FILTER
	0.00	40004	J. 1102 1 0 11		BPF3	PU60808-2	BAND PASS FILTER
	C183	QCSB1HJ-390	CAPACITOR				THE PARTY OF THE P
	C184	QCVB1CN-103	CAPACITOR		DL1	PU60815	2H DELAY LINE
	C185	QCSB1HK-3R9	CAPACITOR		DL3	PU61081	1/4H DELAY LINE
	C190	QCVB1CN-103	CAPACITOR				
				Δì	X101	PU60438	CRYSTAL RESONATOR
	C191	QEK61CM-476	E CAPACITOR				
	C192	QETC1CM-106	E CAPACITOR		T1	PU60814	COIL,4H DLY'D CHROMA
	C193	QETC1CM-106	E CAPACITOR		T2	PU60814	COIL,2H DLY'D CHROMA
	C194	QETC1CM-106	E CAPACITOR				
	C196	QER41CM-476	E CAPACITOR			-VIDEO C SEC	CTION-
	C197	PU54990-3	E CAPACITOR				
	C198	PU54990-3	E CAPACITOR		IC301	PB20287A-03	C.MOD(JA056-01)
	C199	QCVB1CN-103	CAPACITOR		IC302	PB20289A-02	JOG MOD.(JA058)
	C200	QCVB1CN-103	CAPACITOR		IC303	NJM2233AD	IC .
	C201	QCVB1CN-103	CAPACITOR		Q301	2SA933S	TRANSISTOR
	C203	QER61EM-335	E CAPACITOR		Q302	DTC144WS	TRANSISTOR
	C284	QCZ0208-104	MC CAPACITOR		Q303	DTA124ES	TRANSISTOR
	C206	QCS11HJ-150	CAPACITOR		Q304	2SC1740S(QRS)	TRANSISTOR
	C207	QCZ0208-104	MC CAPACITOR		Q305	2SC1740S(QRS)	TRANSISTOR
					Q307	2SC2021Q,R,S	TRANSISTOR
	L1	PU59152-220J	COIL		Q308	2SA937	TRANSISTOR
	L2	PU48530-101K	COIL		Q309	2SC1740S(QRS)	TRANSISTOR
	L4	PU48530-101K	COIL		Q310	DTC124ES	TRANSISTOR
	L6	PU48530-101K	COIL				
	L7	PU48530-101K	COIL		Q311	2SC1740S(QRS)	TRANSISTOR
	L8	PU48530-101K	COIL		Q312	DTC114ES	TRANSISTOR
	L9	PU48530-101K	COIL		Q313	DTC114ES	TRANSISTOR
	L10	PU48530-101K	COIL		Q314	DTC144WS	TRANSISTOR
			1		Q315	2SC1740S(QRS)	TRANSISTOR

#A REF NO. PART NO.	PART NAME, DESCRIPTION	#A REF NO.		PART NAME, DESCRIPTION
Q316 2SA933S	TRANSISTOR	R337	QRD161J-333	RESISTOR
Q317 2SC1740S(QRS)	TRANSISTOR	R338	QRD161J-333	RESISTOR
Q318 2SC1740S(QRS)	TRANSISTOR	R339	QRD161J-151	RESISTOR
	TRANSISTOR	R340	QRD161J-272	RESISTOR
Q319 2SC1740S(QRS)	INANSIOTOR	1	4.01010 212	NEO1010N
Q323 DTC124ES	TRANSISTOR	R341	QRD161J-391	RESISTOR
Q324 DTC124ES	TRANSISTOR	R342	QRD161J-561	RESISTOR
	TRANSISTOR	R343	QRD161J-393	RESISTOR
Q326 2SA933S Q327 2SA933S(QRS)	TRANSISTOR	R344	QRD161J-332	RESISTOR
Q327 2SA933S(QRS)	INANGISTON	R345	QRD161J-472	RESISTOR
ATT: DT010/FC	TRANSISTOR	R346	QRD161J-103	RESISTOR
Q331 DTC124ES	INANSISION	R347	QRD161J-473	
	DTODE			RESISTOR
D301 1SS133	DIODE	R349	QRD161J-122	RESISTOR
OR MA165	DIODE	R350	QRD161J-471	RESISTOR
D302 1SS133	DIODE	D.75.	0001/11/100	DECTATOR
OR MA165	DIODE	R351	QRD161J-102	RESISTOR
	2200	R352	QRD161J-102	RESISTOR
D311 1SS133	DIODE	R353	QVZ3518-222	V.R.PAL LP REC COLOR
DR MA165	DIODE	R355	QVZ3518-222	V.R,PAL SP REC COLOR
D312 1SS133	DIODE	R357	QRD161J-333	RESISTOR
OR MA165	DIODE	R358	QRD161J-223	RESISTOR
D313 1SS133	DIODE	R359	QRD161J-223	RESISTOR
OR MA165	DIODE	R360	QRD161J-102	RESISTOR
D314 1SS133	DIODE			05010700
OR MA165	DIODE	R361	QRD161J-332	RESISTOR
D315 1SS133	DIODE	R362	QRD161J-103	RESISTOR
OR MA165	DIODE	R363	QRD161J-103	RESISTOR
		R364	QRD161J-223	RESISTOR
D323 1SS133	DIODE	R366	QRD161J-103	RESISTOR
OR MA165	DIODE	R367	QRD161J-473	RESISTOR
D324 1SS133	DIODE	R368	QRD161J-332	RESISTOR
OR MA165	DIODE			
D325 1SS133	DIODE	R371	QRD161J-102	RESISTOR
OR MA165	DIODE	R372	QRD161J-102	RESISTOR
D326 1SS133	DIODE		05701114 105	5 040407T0D
OR MA165	DIODE	C301	QETC1HM-105	E CAPACITOR
D327 1SS133	DIODE	C302	QETC1HM-105	E CAPACITOR
OR MA165	DIODE	C303	QCC31CJ-223	CAPACITOR
	BEGIGTOR	C304	QETCOJM-107	E CAPACITOR
R302 QRD161J-102	RESISTOR	C305	QETC1HM-105	E CAPACITOR
R303 QRD161J-102	RESISTOR	C307	QCSB1HJ-330	CAPACITOR
R304 QRD161J-102	RESISTOR	C308	QCSB1HJ-390	CAPACITOR
R305 QRD161J-102	RESISTOR	C309 C310	QFN41HJ-473 QCSB1HJ-560	M CAPACITOR Capacitor
R307 QRD161J-225	RESISTOR	6310	@C381N3-980	CAPACITOR
R308 QRD161J-103	RESISTOR RESISTOR	C311	QEK60JM-476	E CAPACITOR
R309 QRD161J-102	RESISTOR	C312	QCVB1CN-103	CAPACITOR
R310 QRD161J-222	RESISTOR	C314	QCBB1HJ-820	CAPACITOR
R311 QRD161J-222	RESISTOR	C315	QCC31CK-682	CAPACITOR
		C316	QCVB1CN-103	CAPACITOR
R312 QRD161J-561	RESISTOR	C316	QCXB1CN-103	CAPACITOR
R313 QRD161J-561	RESISTOR RESISTOR	C318	QCB81HJ-820	CAPACITOR
R314 QRD161J-103		C320	QCVB1CN-103	CAPACITOR
R315 QRD161J-471 R316 QRD161J-223	RESISTOR RESISTOR	6320	401010W-103	UNI NOTION
R316 QRD161J-223 R319 QRD161J-102	RESISTOR	C321	QETC1HM-105	E CAPACITOR
R320 QRD161J-102	RESISTOR	C322	QETC1HM-104	E CAPACITOR
K320 WKD1615-152	RESISTOR	C323	QEK61EM-475	E CAPACITOR
R321 QRD161J-561	RESISTOR	C324	QCC31CK-104	CAPACITOR
R322 QRD161J-471	RESISTOR	C325	QETCOJM-337	E CAPACITOR
R323 QRD161J-272	RESISTOR	C326	QCC31CK-563	CAPACITOR
R324 QRD161J-391	RESISTOR	C327	QETCOJM-107	E CAPACITOR
R325 QRD161J-223	RESISTOR	C328	QETC1EM-335	E CAPACITOR
R326 QRD161J-561	RESISTOR	C329	QETCOJM-337	E CAPACITOR
R327 QRD161J-333	RESISTOR	C330	QETB1HM-474	E CAPACITOR
R328 QRD161J-102	RESISTOR			
R329 QRD161J-222	RESISTOR	C331	QETC1HM-474	E CAPACITOR
R330 QRD161J-561	RESISTOR	C332	QETC1HM-474	E CAPACITOR
400000	•	C333	QEK61HM-474	E CAPACITOR
R331 QRD161J-561	RESISTOR	C334	QETC1HM-474	E CAPACITOR
R332 QRD161J-393	RESISTOR	C335	QETC1CM-106	E CAPACITOR
R333 QRD161J-223	RESISTOR	C336	QCVB1CN-103	CAPACITOR
R334 QRD161J-221	RESISTOR	C337	QCBB1HJ-121	CAPACITOR
R335 QRD161J-391	RESISTOR	C338	QCVB1CN-103	CAPACITOR
R336 QRD161J-681	RESISTOR	C339	QCVB1CN-103	CAPACITOR

#2	ß REF NO.	PART NO.	PART NAME, DESCRIPTION	#∆		. PART NO.	PART NAME, DESCRIPTION
						R MA165	DIODE
	07/3	OCUP 1 CN - 107	CARACITOR	1			
	C341	QCVB1CN-103	CAPACITOR	l	D602	188133	DIODE
	C342	QCSB1HJ-100	CAPACITOR	1		R MA165	DIODE
	C343	QCVB1CN-103	CAPACITOR	ĺ	D604	188133	DIODE
	C345	QCVB1CN-103	CAPACITOR	1			
	C346	QCVB1CN-103	CAPACITOR		R601	QRD161J-473	RESISTOR
	C347	QCSB1HJ-390	CAPACITOR		R602	QRD161J-152	RESISTOR
	C348	QCVB1CN-103	CAPACITOR	l	R603	QRD161J-222	RESISTOR
	C349	QCVB1CN-103	CAPACITOR	l	R608	QRD161J-152	RESISTOR
	C350	QCVB1CN-103	CAPACITOR		R609	QRD161J-222	RESISTOR
				1			
	C351	QCVB1CN-103	CAPACITOR	ł	R613	QRD161J-223	RESISTOR
	C352	QEK60JM-476	E CAPACITOR		R616	QRD161J-122	RESISTOR
				l			
	C353	QCVB1CN-103	CAPACITOR	l	R617	QRD161J-122	RESISTOR
	C355	QCVB1CN-103	CAPACITOR	ĺ	R620	QRD161J-103	RESISTOR
	C356	QER61HM-105	E CAPACITOR	1			
	C357	QER61EM-475	E CAPACITOR	i	R621	QRD161J-333	RESISTOR
					R623	QRD161J-223	RESISTOR
	L301	PU48530-101K	COIL	ł	R625	QRD161J-223	RESISTOR
	L303	PU48530-101K	COIL		R626	QRD161J-100	RESISTOR
	L304	PU59152-390J	COIL	1	R627	QRD161J-470	RESISTOR
	L305	PU48530-222J	COIL	l	R628	QRD161J-223	RESISTOR
	L306	PU59152-221J	COIL	l	R629	QRD161J-331	RESISTOR
			COIL	!	R630	QRD161J-224	RESISTOR
	L307	PU48530-821J		l	1000	WAD1010-224	VE31210V
	L308	PU48530-101K	COIL	1		0001/1/ 107	25070702
	L309	PU59152-100J	COIL	ļ	R631	QRD161J-123	RESISTOR
	L310	PU59152-100J	COIL	l	R632	QRD161J-562	RESISTOR
				l	R633	QVZ3518-103	V RESISTOR, PB LEVEL
	L311	PU59153-822J	COIL	į .	R634	QRD161J-103	RESISTOR
	L312	PU59153-101K	COIL	ĺ	R635	QRD161J-122	RESISTOR
	L313	PU59153-101K	COIL		R636	QRD161J-472	RESISTOR
	L314	PU48530-101K	COIL		R637	QRD161J-393	RESISTOR
	L316	PU59152-150J	COIL)	R638	QRD161J-273	RESISTOR
	L317	PU48530-101K	COIL	l	R639	QRD161J-122	RESISTOR
	L317	7040330 101K	0011	[R640	QRD161J-181	
	F0703	PU60811-2	EOUAL TZED	ĺ	K640	6KD1913-101	RESISTOR
	EQ301	PU6U611-2	EQUALIZER	İ	2443	01/77510 (77	W DECICION DIAC AND
			100 0100 571 770	l	R641	QVZ3518-473	V RESISTOR, BIAS ADJ
	LPF301	PU58022	LOW PASS FILTER	}	R642	QRD161J-333	RESISTOR
				1	R643	QRD161J-2R2	RESISTOR
			BAND PASS FILTER	l	R644	QRD161J-104	RESISTOR
	8R	PU57072-2	BAND PASS FILTER		R645	QRD161J-270	RESISTOR
	BPF302	PU60654	BAND PASS FILTER	1	R646	QRD161J-103	RESISTOR
	OR	PU60654-2	BAND PASS FILTER		R647	QRD161J-332	RESISTOR
				1	R648	QRD161J-103	RESISTOR
	⚠ CF301	PU57073	CERAMIC FILTER	ŀ		4	
	Z 0, 00 z			}	C601	QEK51CM-336	E CAPACITOR
	DL301	PU58971-3	COMB FILTER	ł	C602	QEK61HM-105	E CAPACITOR
•	DESGI	F098971-3	COND FILTER	1			
	^ ×===	DU/0/57	CDVCTA: UNITE	l	C603	QCXB1CM-682	CAPACITOR
	A X301	PU60653	CRYSTAL UNITS		C604	QEK61CM~336	E CAPACITOR
				ĺ	C605	QEK61EM-475	E CAPACITOR
	T301	PU49057	LC BLOCK, APC ERROR PHASE		C606	QFL31HJ-182	M CAPACITOR
					C607	QFL31HJ-222	M CAPACITOR
	TP6	PU56008	TEST-PIN	l	C608	PU60550-105	E CAPACITOR
	TP10	PU57545	TEST PIN, X37	ĺ	C609	QEK61CM-106	E CAPACITOR
				Ī	C618	QFV71HJ-103	M CAPACITOR
		-AUDIO SECTI	ON-				
				į	C611	QEK61HM-224	E CAPACITOR
	10601	BA7751ALS	IC	ŀ	C612	QEK61HM-105	E CAPACITOR
	10001	5A.151A.20			C613	QEK61CM-226	E CAPACITOR
	0401	2SC1740S(RS)	TRANSISTOR		C614	QEK61HM-225	E CAPACITOR
	Q601						
	Q603	2SC1740S(RS)	TRANSISTOR	i	C615	QEK61HM-106	E CAPACITOR
	Q605	2SC1740S(RS)	TRANSISTOR	Ì	C616	QEK61CM-106	E CAPACITOR
	Q606	DTA124ES	TRANSISTOR	l	C617	QFV71HJ-273	M CAPACITOR
	Q607	DTA114ES	TRANSISTOR	}	C618	QFV71HJ-153	TF CAPACITOR
	Q608	2SC1740S(RS)	TRANSISTOR		C619	QCBB1HJ-331	CAPACITOR
	Q609	2SC1740S(RS)	TRANSISTOR	1	C628	QFV71HJ-563	TF CAPACITOR
	Q610	2SC1740S(RS)	TRANSISTOR	ļ	-		
				!	C621	QEK61CM-476	E CAPACITOR
	Q611	DTA144ES	TRANSISTOR		C622	QCXB1CN-122	CAPACITOR
	Q612	DTA114ES	TRANSISTOR		C623	QCC11EJ-472	CAPACITOR
		DTC144EF	TRANSISTOR		C624	QCC31EK-272	CAPACITOR
	Q613		TRANSISTOR			QEK61CM-106	
	Q614	DTC144EF	IMMISTSIUK		C625		
	D. (D.)	100177	21025	Ì	C626	QFP42AF-682M	PP CAPACITOR
	D601	155133	DIODE	I	C627	QFN31HK-222	M CAPACITOR

#4			PART NAME, DESCRIPTION	#∆	REI	NO.	PART NO.	PART NAME, DESCRIPTION
	C628		E CAPACITOR					
	C629	QFL41HJ-562	TF CAPACITOR		R1:	1	QRSA08J-124Y	CHIP RESISTOR
					R1:		QRSA08J-103Y	RESISTOR
	L601	PU58308-103J	COIL		R1:		QRSAD8J-1D2	RESISTOR
					R14		QRSAO8J-334YN	RESISTOR
	K603	PGZ00354	FERRITE BEADS		R1:		QRSAO8J-824YN	RESISTOR
	K604	PGZ00354	FERRITE BEADS		RI		QVZ3521-105	V.R,SLOW TK PRESET(SP)
	T/01	DUE 004 B	OSC TRANSFORMER		R1		QRSA08J-184YN QVZ3521-105	RESISTOR V.R,SLOW TK PRESET(LP)
20.	T601	PU59949	USC TRANSFORTER		RI		QRSA08J-274YN	RESISTOR
	TP631	PU54983	TEST PIN, X4(TP631-634)		R21		QRSA08J-824YN	RESISTOR
			·					
€ × × :	*****	*********	***********		R2:		QRSAO8J-683YN	RESISTOR
			į		R2		QRSA08J-103Y	RESISTOR
					R2:		QRSA08J-102	RESISTOR
			**************************************		R2		QRSAD8J-223Y	RESISTOR
	*		BOARD ASSY <05> * * ********************************		R2		QRSAO8J-334YN QRSAO8J-392YN	RESISTOR
	***	*****	*********		R2		QRSA08J-103Y	RESISTOR RESISTOR
					R2		QRSA08J-104	RESISTOR
	PWBA	PRK10029A	D/C SERVO BOARD ASSY		R3		QRSA08J-222	RESISTOR
	ICl	HD49722NT	IC		R3		QRSAO8J-823YN	RESISTOR
	IC2	BU2767S	IC		R3		QRSA08J-105YN	RESISTOR
	IC3	TC4S66F	IC		R3:		QRSAG8J-393YN	RESISTOR
		P. C. C. C. F. L.	TRANSTETOR		R34		QRSAO8J-333YN	RESISTOR
	Q1 Q2	DTC144EU DTC144EU	TRANSISTOR TRANSISTOR		R3:		QRSAO8J-683YN QRSAO8J-153	RESISTOR RESISTOR
	Q 3	DTA124EU	TRANSISTOR		R3		QRSA08J-223Y	RESISTOR
	Q4	DTC144EU	TRANSISTOR		R3		QRSA08J-105YN	RESISTOR
	Q5	DTC124EU	TRANSISTOR		R3		QRSA08J-103Y	RESISTOR
	Q6	DTC144EU	TRANSISTOR		R4)	QRSA08J-102	RESISTOR
	Q7	DTA144EU	TRANSISTOR					
	ୟ8	DTA124EU	TRANSISTOR		R4		QRSA08J-103Y	RESISTOR
	Q9	DTA124EU	TRANSISTOR		R47		QRSAO8J-123YN	RESISTOR
	Q10	DTA124EU	TRANSISTOR		R4:		QRSAO8J-274YN QRSAO8J-105YN	RESISTOR RESISTOR
	Q11	DTA124EU	TRANSISTOR		R4!		QRSA08J-105YN	RESISTOR
	411	DIAILTEO			R44		QRSA08J-273YN	RESISTOR
	D1	188133	DIODE		R4		QRSA08J-222	RESISTOR
	02	188133	DIODE .		R4	3	QRSAO8J-563YN	RESISTOR
	D3	188133	DIODE		R4		QRSA08J-105YN	RESISTOR
	D4	1SS133	DIODE		R5	כ	QRSA08J-273YN	RESISTOR
	D5	188133	DIODE		DE.		ODCADO L JEZVII	DECTETOR
	D6 D8	1SS133 1SS133	DIODE		R5		QRSA08J-154YN QRSA08J-154YN	RESISTOR RESISTOR
	D9	188133	DIODE		R54		QRSA08J-102	RESISTOR
	D10	155133	DIODE		R5		QVZ3521-684	V RESISTOR, PB SW POINT TK
					R56	ś	QRSA08J-104	RESISTOR
	Dll	188133	DIODE		R5		QRSA08J-823YN	RESISTOR
	D12	188133	DIODE		R5		QRSA08J-222	RESISTOR
	D13	188133	DIODE		R59		QVZ3521-474	V RESISTOR, X2 PB(LP)
	D14 D15	188133	DIODE		R61	,	QVZ3521-474	V RESISTOR, TRACKING PRESET
	D16	1SS133 1SS133	DIODE		R6	ı	QVZ3521-474	V RESISTOR, X2 PB TK(SP)
	D17	188133	DIODE		R6		QRSA08J-103Y	RESISTOR
	D18	188133	DIODE		R6	3	QRSA08J-102	RESISTOR
	D19	188133	DIODE		R64		QRSA08J-155YN	RESISTOR
	D20	188133	DIODE		R6		QRSA08J-102	RESISTOR
					R6		QRSA08J-102	RESISTOR
	D21	188133	DIODE DIODE		R68		QRSA08J-102 QRSA08J-102	RESISTOR RESISTOR
	D22 D23	1SS133 1SS133	DIODE		R7		QRSA08J-104	RESISTOR
	DE 3	100100	J. 500 L		,,,,,	-	440400-104	
	R1	QRSA08J-104	RESISTOR		R7	ì	QRSA08J-332YN	RESISTOR
	R2	QRSA08J-562Y	RESISTOR		R72		QRSA08J-102	RESISTOR
	R3	QRSA08J-273YN	RESISTOR		R73		QRSA08J-182Y	RESISTOR
	R4	QRSA08J-473	RESISTOR		R74		QRSAD8J-104	RESISTOR
	R5	QRSAO8J-393YN	RESISTOR		R79		QRSAO8J-ORO QRSAO8J-ORO	RESISTOR RESISTOR
	R6 R7	QRSA08J-392YN QRSA08J-683YN	RESISTOR RESISTOR		R76	,	WW.SWOOD_OKO	VE27210V
	R 8	QRSA08J-123YN	RESISTOR		81		QRSA08J-ORO	RESISTOR, X46
	R9	QRSA08J-332YN	RESISTOR					
	R10	QRSA08J-472	RESISTOR		Cl		QFV71HJ-224	M CAPACITOR

REF NO.	PART NO.	PART NAME, DESCRIPTION			PART NO.	PART NAME, DESCRIPTION
C3	QFV71HJ-124	M CAPACITOR	1	IC2	NJM2904S	IC
	QFV71HJ-104	M CAPACITOR		IC3	NJM2903S	IC
C4		M CAPACITOR		IC4	MN4030BS	IC
C5	QFV71HJ-393			IC5		ic
C6	QEK61CM-226MZ	E CAPACITOR			TA78L005AP	
C7	QCYA1HK-102	CAPACITOR		IC6	TA78L009AP	IC
C8	QEK61CM-226MZ	E CAPACITOR		IC7	NJM2904S	IC
C9	QCC11CK-102	CAPACITOR		IC8	NJM2904S	IC
C18	QCTA1CH-181	CAPACITOR		IC9	MN4053BS	IC
				IC10	NJM2904S	IC
C11	QCBB1HJ-101	CAPACITOR	1			
C14	QFV71HJ-474	M CAPACITOR	1	IC11	NJM2903S	IC
C16	QCYA1HK-102	CAPACITOR		IC12	MN4053BS	IC
	QCYA1HK-103	CAPACITOR		IC13	BA6302AF	IC
C17		E CAPACITOR		IC14	NJM2904S	ic
C18	QEK61CM-226MZ					
C19	QFV71HJ-334	M CAPACITOR		IC15	NJM2903S	IC
C20	QFL31HJ-682	M CAPACITOR		IC16	MN4013BS	IC
				IC17	MN1280P	IC
C21	QEK61EM-475MZ	E CAPACITOR	į.	IC18	MN4013BS	IC
C22	QEK61EM-475MZ	E CAPACITOR	1	IC19	MN4069UBS	IC
C23	QEK61CM-106MZ	E CAPACITOR		IC20	MN4081BS	IC
C24	QEK61CM-106MZ	E CAPACITOR	1	- '.	-	
		NP E CAPACITOR	1	IC21	MN4081BS	IC
C25	QEN61HM-105MZ	\ _ \ \		IC22	MN4538BS	ic
C26	QFV71HJ~104	M CAPACITOR	1	1666	FIR433053	10
C27	QCYA1HK-102	CAPACITOR	1		00003715	70.440.70700
C28	QCTA1CH-471	CAPACITOR		Q1	2SD973AQ,R,S	TRANSISTOR
C29	QFL31HJ-682	M CAPACITOR		Q2	DTC124EK	TRANSISTOR
C30	QFL31HJ-102	M CAPACITOR		Q3	2SD973AQ,R,S	TRANSISTOR
	•		1	Q4	DTC124EK	TRANSISTOR
C31	QFV71HJ-124	M CAPACITOR		Q5	DTC124EK	TRANSISTOR
C32	QCYA1HK-102	CAPACITOR		Q6	DTC144EK	TRANSISTOR
	QCYA1HK-102	CAPACITOR	ì			
C33			1	ום	100127	DIODE
C34	QEK61AM-226MZ	E CAPACITOR	1		188133	
C35	QCTA1CH-101	CAPACITOR		D2	DA204K	DIODE .
C36	QEK61AM-226MZ	E CAPACITOR		D4	DAN202K	CHIP DIODE ARRAY
C37	QCTA1CH-150	CAPACITOR		D5	DANSOSK	CHIP DIODE ARRAY
C38	QEK61HM-105	E CAPACITOR		D6	DAN202K	CHIP DIODE ARRAY
C39	QEK61HM-105	E CAPACITOR	1	D7	188133	DIODE
C40	QCYA1HK-103	CAPACITOR	İ	D8	188133	DIODE
				D9	188133	DIODE
C41	QCYA1HK-102	CAPACITOR		D10	188133	DIODE
C42	QEK61CM-226MZ	E CAPACITOR	I			
			ļ	D 11	188133	DIODE
C43	QCTA1CH-101	CAPACITOR	1	-11		
C44	QCYA1HK-102	CAPACITOR	1	D.1	0004001 300	DECTOR
C45	QFV71HJ-334	M CAPACITOR		R1	QRSA08J-102	RESISTOR
C46	QFV71HJ-394	M CAPACITOR		R2	QRSAG8J-333YN	RESISTOR
				R3	QRSA08J-103Y	RESISTOR
L1	PU48530-101K	COIL	1	R4	QVZ3521-102	V RESISTOR, FG A D ADJ
L2	PU48530-101K	COIL	1	R5	QRSA08J-103Y	RESISTOR
L3	PU48530-100K	COIL		R6	QRSA08J-102	RESISTOR
				R7	QRSA08J-102	RESISTOR
THI	NTH5D223KA	THERMISTOR		R8	QRSA08J-333YN	RESISTOR
	NTH5D223LA	THERMISTOR		R9	QRSA08J-103Y	RESISTOR
U.	NINDUZZOLA	CHEMPLOTON		R10	QVZ3521-102	V RESISTOR, FG B D ADJ
	BUELOOG	TECT DEN VO	Į.	V 10	4473351_105	A MESTSTONALA B D WOR
TP1	PU56008	TEST-PIN, X9	1	D11	עבט ביין מטע סטט	DECTOTOR
		·		R11	QRSA08J-103Y	RESISTOR
CNI	PU58844-3	CAP HOUSING		R12	QRSA08J-222	RESISTOR
CNS	PU58931-16	CAP HOUSING		R13	QRSA08J-105YN	RESISTOR
CN3	PU58844-5	CAP HOUSING		R14	QRSAO8J-103Y	RESISTOR
CN4	PU58844-7R	CAP HOUSING	1	R15	QRSA08J-103Y	RESISTOR
CNS	PU58844-7	CAP HOUSING	1	R16	QRSA08J-222	RESISTOR
CN6	PU58844-5Y	CAP HOUSING		R17	QRSA08J-105YN	RESISTOR
CN7	PU58931-20	CAP HOUSING		R18	QRSA08J-103Y	RESISTOR
3117				R19	QRSA08J-103Y	RESISTOR
		************		R20	QRSA08J-104	RESISTOR
******	********	**************************************	1	20	##2H007_104	WESTSTON.
			i	222	0004001 300	RECTOTOR
				R22	QRSA08J-102	RESISTOR
***		*******************		R23	QRSA08J-102	RESISTOR
*	8. TIME LAPS	SERVO BOARD ASSY <06> *	1	R24	QRSA08J-104	RESISTOR
		********	ł	R25	QRSA08J-102	RESISTOR
				R27	QRSA08J-103Y	RESISTOR
				R28	QRSA08J-182Y	RESISTOR
DWD A	PPK 10070A-01	TIME LAPSE SERVO ROARD ASSV	L	R29		KESISIUK
PWBA	PRK10030A-01	TIME LAPSE SERVO BOARD ASSY		R29 R30	QRSA08J-123YN QRSA08J-102	RESISTOR RESISTOR

#À REF NO.	PART NO.	PART NAME, DESCRIPTION	#A REF NO.	PART NO.	PART NAME, DESCRIPTION
R31	QRSAO8J-683YN	RESISTOR	C5	QCS31HJ-101	CAPACITOR
R32	QRSA08J-103Y	RESISTOR	C6	QCS31HJ-101	CAPACITOR
R33	QRSA08J-103Y	RESISTOR	C7	QFV41HJ-684	TF CAPACITOR
R34	QRSA08J-223Y	RESISTOR	C8	QER61CM-226	
		RESISTOR	C9	QCF31HP-103	E CAPACITOR
R35	QRSA08J-223Y				CAPACITOR
R36	QRSA08J-223Y	RESISTOR	C10	QCF31HP-103	CAPACITOR
R37	QRSA08J-223Y	RESISTOR			
R38	QVZ3521-104	V RESISTOR, STOP S-2 ADJ	C11	QER61CM-226	E CAPACITOR
R39	QRSA08J-223Y	RESISTOR	C12	QCF31HP-103	CAPACITOR
R40	QRSA08J-122YN	RESISTOR	C13	QER61CM-226	E CAPACITOR
			C14	QCF31HP-103	CAPACITOR
R41	QRSA08J-103Y	RESISTOR	C15	QER61CM-226	E CAPACITOR
R42	QRSA08J-103Y	RESISTOR	C16	QCF31HP-103	CAPACITOR
R43	QVZ3521-332	V RESISTOR,STOP S-1 ADJ	C17	QER61CM-226	E CAPACITOR
R44	QRSA08J-103Y	RESISTOR	C18	QER61CM-226	E CAPACITOR
R45	QVZ3521-472	V RESISTOR, STOP S-3 ADJ	C19	QCF31HP-103	CAPACITOR
R46	QRSA08J-103Y	RESISTOR	C50	QFN31HK-223	M CAPACITOR
R47	QRSA08J-684YN	RESISTOR	ļ		
R48	QRSA08J-223Y	RESISTOR	C21	QCS31HJ-330	CAPACITOR
R49	QRSA08J-103Y	RESISTOR	C22	QCF31HP-103	CAPACITOR
R50	QRSA08J-103Y	RESISTOR	C24	QER61CM-226	E CAPACITOR
	dispusse in it	NEGEO VOI	C25	QER61CM-226	E CAPACITOR
R51	QRSA08J-102	RESISTOR	C26		
		RESISTOR	C27	QCS31HJ-221	CAPACITOR
R52	QRSA08J-103Y		C29	QFP42AJ-272	PP CAPACITOR
R53	QRSA08J-104	RESISTOR	C30	QFN31HJ-392	M CAPACITOR
R54	QRSA08J-102	RESISTOR	Lau	QCF31HP-102	CAPACITOR
R55	QRSA08J-102	RESISTOR			
R56	QVZ3521-154	V RESISTOR, TL D ADJ	C31	QER61CM-226	E CAPACITOR
R57	QRSA08J-224YN	RESISTOR	C32	QER61HM-104GZ	E CAPACITOR
R58	QRSA08J-333YN	RESISTOR	C33	QCF31HP-102	CAPACITOR
R59	QRSA08J-223Y	RESISTOR	C34	QER61HM-105GZ	E CAPACITOR
R60	QRSA08J-223Y	RESISTOR	C35	QCF31HP-102	CAPACITOR
			C36	QCF31HP-102	CAPACITOR
R61	QRSA08J-103Y	RESISTOR	C37	QCF31HP-102	CAPACITOR
R62	QVZ3521-103	V RESISTOR, D REF ADJ	C38	QFN31HJ-103	M CAPACITOR
R63	QRSA08J-104	RESISTOR	C39	QC\$31HJ-391	CAPACITOR
R64	QRSA08J-682	RESISTOR	C40	QER61CM-226	E CAPACITOR
R65	QRSA08J-104	RESISTOR	į		
R66	QRSA08J-104	RESISTOR	L1	PU53223-101J	COIL
R67	QRSA08J-104	RESISTOR	L2	PU53223-101J	COIL
R69	QRSA08J-103Y	RESISTOR	L3	PU53223-101J	COIL
R70	QRSA08J-223Y	RESISTOR			
			TH1	PU52108-100K	POSITIVE THERMISTOR
R71	QRSA08J-102	RESISTOR	i		
R72	QRSA08J-103Y	RESISTOR	TP1	PU54983	TEST PIN, X13
R73	QRSA08J-473	RESISTOR			
R74	QRSA08J-333YN	RESISTOR	CN1	PU58844-5	CAP HOUSING
R75	QVZ3521-103	V RESISTOR, TL ADV ADJ	CN2	PU58844-5Y	CAP HOUSING
R76	QRSA08J-103Y	RESISTOR	CN3	PU58929-16	HOUSING
R77	QRSA08J-104	RESISTOR	CN4	PU58929-16	HOUSING
R78	QRSA08J-104	RESISTOR		,	
R79	QRSA08J-102	RESISTOR	A CPI	ICP-F38	CIRCUIT PROTECTOR
R80	QRSA08J-104	RESISTOR			
	~		*******	*******	**********
R81	QRSA08J-103Y	RESISTOR			
R82	QRSA08J-104	RESISTOR			
R83	QRSA08J-104	RESISTOR	****	**********	********
R84	QRSA08J-102	RESISTOR	×	9. MECHACON B	OARD ASSY <07> *
R85	QRSA08J-102	RESISTOR	****		********
R86	QRSA08J-104	RESISTOR			
R87	QVZ3521-224	V RESISTOR, LIMIT D ADJ			
R88	QRSA08J-124Y	CHIP RESISTOR	PWBA	PRK10040A-05	MECHACON BOARD ASSY
R89	QRSA08J-103Y	RESISTOR			THE STATE OF THE S
R90	QRSA08J-102	RESISTOR	ICI	M50938E-349SP	IC
			IC2	BA6259N	IC
R91	QRSA08J-563YN	RESISTOR	IC3	M50255P	ic
R92	QRSA08J-103Y	RESISTOR	104	M51957BL	IC
R93	QRSA08J-102	RESISTOR	107	.,	**
R94	ERT-D2FHL103S	THERMISTOR	10101	VC2032	ic
N 7**	DE. NE 1003	i remitadi di	10102	MN4053B	IC
C1	QCS31HJ-101	CAPACITOR	10102	MN4053B	IC
C2	QER61CM-106GZ	E CAPACITOR	10103	VC2064	IC
C3	QCS31HJ-101	CAPACITOR	10104	VC2064 VC2064	IC
C4	QER61CM-106GZ	E CAPACITOR	IC105		
C+4	MENOTON-IDOR	- OWLWOTION	10100	VC2032	IC

4. *	REF NO.	PART NO.	PART NAME, DESCRIPTION	#A REF NO	. PART NO.	PART NAME, DESCRIPTION
				R43	QRD161J-472	RESISTOR
	Q1	2SD973AR	TRANSISTOR	R44	QRD161J-472	RESISTOR
	Q2	DTC144EF	TRANSISTOR	R45	QRD161J-102	RESISTOR
	Q3	DTC144EF	TRANSISTOR	R46	QRD161J-103	RESISTOR
	Q6	DTA144EF	TRANSISTOR	R47		
	w o	DIAITTE	TRANSISTOR		QRD161J-103	RESISTOR
	0101	DT.130/55	TRANSTERM	R48	QRD161J-103	RESISTOR
	Q101	DTA124EF	TRANSISTOR	R49	QRD161J-103	RESISTOR
	Q102	2SD637R,S	TRANSISTOR			
	Q103	2SD637R,S	TRANSISTOR	R51	QRD161J-102	RESISTOR
	Q104	2SD637R,S	TRANSISTOR	R52	QRD161J-102	RESISTOR
				R53	QRD161J-103	RESISTOR
	D1	HZS4.3EB2	ZENER DIODE	R54	QRD161J-103	RESISTOR
	D2	188133	DIODE	R55	QRD161J-103	RESISTOR
	D3	188133	DIODE	R56	QRD161J-103	RESISTOR
`	D4	188133	DIODE	R57	QRD161J-103	RESISTOR
	D6	188133	DIODE	R58	QRD161J-472	RESISTOR
	D8	188133	DIODE	R59	QRD161J-103	RESISTOR
	D 9	HZS7.5EB2	ZENER DIODE	R60	QRD161J-103	RESISTOR
	010	MC921	DIODE		4.01010 100	RESISTOR
	010	110721	DIODE	D41	0001411-107	PECTOTOR
	D11	188133	DIODE	R61	QRD161J-103	RESISTOR
				R62	QRD161J-103	RESISTOR
	D12	188133	DIODE	R63	QRD161J-472	RESISTOR
	D13	188133	DIODE	R64	QRD161J-182	RESISTOR
			27025		0000401-0040	OVE DESIGNAD
	0101	188133	DIODE	R81	QRG016J-221A	OMF RESISTOR
	D102	188133	DIODE	1 _		
	D103	188133	DIODE	R101	QRD161J-222	RESISTOR
	D104	188133	DIODE	R102	QRD161J-222	RESISTOR
				R103	QRD161J-562	RESISTOR
	R1	QRD161J-332	RESISTOR	R104	QRD161J-102	RESISTOR
	R2	QRD161J-122	RESISTOR	R105	QRD161J-102	RESISTOR
	R3	QRD161J-823	RESISTOR	R106	QRD161J-103	RESISTOR
	R4	QRD161J-102	RESISTOR	R107	QRD161J-222	RESISTOR
	R5			R108		
		QRD161J-102	RESISTOR		QRD161J-222	RESISTOR
	R6	QRD161J-103	RESISTOR	R109	QRD161J-124	RESISTOR
	R7	QRD161J-102	RESISTOR	R110	QRD161J-223	RESISTOR
	R8	QRD161J-103	RESISTOR			
	R9	QRD161J-472	RESISTOR	R111	QRD161J-223	RESISTOR
	R10	QRD161J-103	RESISTOR	R112	QRD161J-103	RESISTOR
				R113	QRD161J-333	RESISTOR
	R11	QRD161J-105	RESISTOR	R114	QRD161J-333	RESISTOR
	R12	QRD161J-472	RESISTOR	R115	QRD161J-222	RESISTOR
	R13	QRD161J-472	RESISTOR	R116	QRD161J-222	RESISTOR
	R14	QRD161J-472	RESISTOR	R117	QRD161J-222	RESISTOR
	R15	QRD161J-472	RESISTOR	R118	QRD161J-0R0	RESISTOR
	R16	QRD161J-472	RESISTOR	R119	QRD161J-ORO	RESISTOR
	R17	QRD161J-472	RESISTOR	R120	QRD161J-ORO	RESISTOR
	R18	QRD161J-472	RESISTOR		2	
	R19	QRD161J-124	RESISTOR	R124	QRD161J-222	RESISTOR
	R20	QRD161J-472	RESISTOR	R125	QRD161J-222	RESISTOR
	501	0001/1: 10/	DESTATOR	R126	QRD161J-222	RESISTOR
	R21	QRD161J-124	RESISTOR	R127	QRD161J-103	RESISTOR
	R22	QRD161J-472	RESISTOR	R128	QRD161J-103	RESISTOR
	R23	QRD161J-333	RESISTOR	R129	QRD161J-102	RESISTOR
	R24	QRD161J-472	RESISTOR	R130	QRD161J-222	RESISTOR
	R25	QRD161J-472	RESISTOR			
	R26	QRD161J-472	RESISTOR	R131	QRD161J-222	RESISTOR
	R27	QRD161J-472	RESISTOR	R132	QRD161J-222	RESISTOR
	R28	QRD161J-472	RESISTOR	R133	QRD161J-222	RESISTOR
	R29	QRD161J-103	RESISTOR	R134	QRD161J-222	RESISTOR
	R30	QRD161J-102	RESISTOR	R135	QRD161J-222	RESISTOR
				R136	QRD161J-0R0	RESISTOR
	R31	QRD161J-103	RESISTOR	R137	QRD161J-0R0	RESISTOR
	R32	QRD161J-331	RESISTOR	R139	QRD161J-0R0	RESISTOR
	R33	QRD161J-822	RESISTOR		OUG	NEO-101 VI
	R34		RESISTOR	R142	QRD161J-102	RESISTOR
		QRD161J-103				
	R35	QRD161J-223	RESISTOR	R143	QRD161J-334	RESISTOR
	R36	QRD161J-152	RESISTOR	R144	QRD161J-124	RESISTOR
	R37	QRD161J-103	RESISTOR	R145	QRD161J-ORO	RESISTOR
	R38	QRD161J-103	RESISTOR	R146	QRD161J-103	RESISTOR
	R39	QRD161J-103	RESISTOR	R147	QRD161J-103	RESISTOR
			·	R148	QRD161J-561	RESISTOR
	R41	QRD161J-472	RESISTOR	R149	QRD161J-103	RESISTOR
	R42	QRD161J-472	RESISTOR	R150	QRD161J-102	RESISTOR
	–		*			
			l	RA1	QRB047J-472	RESISTOR ARRAY

#A REF NO.		PART NAME, DESCRIPTION			PART NO.	PART NAME, DESCRIPTION
	QRB049J-472	RESISTOR ARRAY	1	CN14	PU58844-9R	CAP HOUSING
RAZ	QRB047J-103	RESISTOR ARRAY		CN15	PU58844-4	CAP HOUSING
	QRB049J-103	RESISTOR ARRAY		CN16	PU58844-5	CAP HOUSING
UN	WKB0475-105	RESISTOR ARRA		CN17	PU58844-6	CAP HOUSING
	0001/11 000	DECICION	1			WIRE HOLDER
B2	QRD161J-OR0	RESISTOR	1	CN18	PU59934-17	
B3	QRD161J-ORO	RESISTOR	1	CN19	PU58844-8Y	CAP HOUSING
			i	CN20	PU58844-5R	CAP HOUSING
C1	QCC11EK-473	CAPACITOR				
C5	QCBB1HJ-101	CAPACITOR		CN21	PU58844-5Y	CAP HOUSING
C3	QCBB1HJ-101	CAPACITOR	1	CN22	PU58844-6R	CAP HOUSING
C4	QCC11EK-473	CAPACITOR		CN23	PU58844-6Y	CAP HOUSING
C5	QETC1EM-475	E CAPACITOR		CN24	PU58844-7	CAP HOUSING
C6	QCF31HP-223	CAPACITOR		CN25	PU58844-9Y	CAP HOUSING
C7	QCF31HP-223	CAPACITOR		CN26	PU58844-14	CAP HOUSING
C8	QCFB1EZ-223	CAPACITOR				
C9	QETC1EM-335	E CAPACITOR	****	*****	******	**********************
C10	QCFB1EZ-223	CAPACITOR				
0.0	do Bill 200	ON HOLION	1			
C11	QCBB1HJ-101	CAPACITOR	1	****	*****	*********
			ľ	*		
C12		CAPACITOR	1			SUB SERVO BOARD (1) ASSY <08*
C13	QETC1HM-474	E CAPACITOR	1	***	******	*********
C14	QCS31HJ-68D	CAPACITOR	1			
C15	QCS31HJ-680	CAPACITOR	1			
C16	QCF31HP-473	CAPACITOR		PWBA	PGE20321A	TIME LAPSE SUB SERVO B.ASSY
		010107700	1	B. 18 / -	D00000000000	NI OUR OFFICE PERSON
C101	QCF31HP-103	CAPACITOR	1	PWBA1	PGE20321A1	TL SUB SERVO BOARD (1)ASSY
C102	QER61CM-226	E CAPACITOR				
C103	QCS31HJ-101	CAPACITOR	ſ	ICI	UPD75008CU-71A	IC
C104	QCF31HP-103	CAPACITOR	1	IC2	TC4069UBP	IC
C105	QER61CM-226	E CAPACITOR	1	IC3	IC-PST523H-2	IC
C106	QER61CM-226	E CAPACITOR	1			
C107	QCF31HP-103	CAPACITOR	1	Q2	DTCl14EF	TRANSISTOR
C108	QCS31HJ-101	CAPACITOR	1	Q3	DTC114EF	TRANSISTOR
C109	QCS31HJ-101	CAPACITOR		Q4	DTC114EF	TRANSISTOR
C110	QER61CM-106	E CAPACITOR	1	Q5	DTA124EF	TRANSISTOR
C111	QCF31HP-102	CAPACITOR		D1	188133	DIODE
				D2	188133	DIODE
L1	PU59152-100J	COIL	1	D3	RD7.5ES-T1B1	ZENER DIODE
L101	PU59152-101J	COIL		D4	188133	DIODE
L102	PU59152-101J	COIL	1	D5	1SS133	DIODE
6102	1037132 2010	0011	1	D6	188133	DIODE
A CF1	PU60030	RESONATOR	1	-	100100	51052
W 0	. 000000		1	Rl	QRD161J-103	RESISTOR
K1	PGZ00354	FERRITE BEADS		R2	QRD161J-103	RESISTOR
K2	PGZ00354	FERRITE BEADS		R4	QRD161J-103	RESISTOR
		FERRITE BEADS		R5		RESISTOR
K3	PGZ00354	FERRITE BEADS		R6	QRD161J-472	
K4	PGZ00354				QRD161J-102	RESISTOR
K5	PGZ00354	FERRITE BEADS	1	R7	QRD161J-102	RESISTOR
K6	PGZ00354	FERRITE BEADS	1	R8	QRD161J-102	RESISTOR
К7	PGZ00354	FERRITE BEADS	1	R9	QRD161J-102	RESISTOR
				R10	QRD161J-102	RESISTOR
SKT1	PGZ01428-064	IC SOCKET, (FOR IC1)			0001/11/200	PROTOTOR
				R11	QRD161J-102	RESISTOR
WR1	PW30112-LOAF6AH	PAKALLEL WIRE		R12	QRD161J-102	RESISTOR
				R13	QRD161J-102	RESISTOR
J101	QWE251-04A2A2	WIRE		R14	QRD161J-102	RESISTOR
J102	QWE252-07A2A2	WIRE		R15	QRD161J-102	RESISTOR
		•		R16	QRD161J-102	RESISTOR
TP1	PU54983	TEST PIN, X3	1	R17	QRD161J-102	RESISTOR
			ì	R18	QRD161J-563	RESISTOR
CN1	PU58844-2	CAP HOUSING	1	R19	QRD161J-102	RESISTOR
CN2	PU58930-16	CAP HOUSING		R20	QRD161J-123	RESISTOR
CN3	PU58928-16	CAP HOUSING	į			
CN4	PU58928-16	CAP HOUSING		R21	QRD161J-682	RESISTOR
CN5	PU58844-3	CAP HOUSING		R22	QRD161J-471	RESISTOR
CN6	PU58844-3R	CAP HOUSING	1	R23	QRD161J-471	RESISTOR
CN7	PU58930-20	CAP HOUSING	1	R24	QRD161J-103	RESISTOR
CN8	PU58844-2R	CAP HOUSING		R25	QRD161J-103	RESISTOR
CN10	PU58844-8	CAP HOUSING		R26	QRD161J-103	RESISTOR
CHIO	FU30044~0	Om. 110031110				
0111	DUE9944 35	CAR HOUSTNC		R27	QRD161J-103	RESISTOR RESISTOR
CN11	PU58844-15	CAP HOUSING		R28	QRD161J-103	
CN12	PU58844-9Y	CAP HOUSING		R29	QRD161J-682	RESISTOR
CN13	PU58844-9	CAP HOUSING	ı	R30	QRD161J-103	RESISTOR

#A REF NO	. PART NO.	PART NAME, DESCRIPTION	#∆	REF NO.	PART NO.	PART NAME, DESCRIPTION
				0104	0/77507 007	
	0001611 356	DESTSTOR	Į.	R104	QVZ3521-224	V.R,REC CTL POS.ADJ
R31	QRD161J-154	RESISTOR	1	R105	QRD161J-103	RESISTOR
R32	QRD161J-102	RESISTOR	I	R106	QVZ3521-474	V.R.DRUM ADD PULSE POS.
R33	QRD161J-102	RESISTOR	ì	R107	QRD161J-333	RESISTOR
R34	QRD161J-102	RESISTOR	ł	R108	QRD161J-183	RESISTOR
R35	QRD161J-102	RESISTOR	1	R109	ERT-D2FHL103S	THERMISTOR
R36	QRD161J-102	RESISTOR		R110	QRD161J-102	RESISTOR
R37	QRD161J-102	RESISTOR	1			
R38	QRD161J-102	RESISTOR	f	R111	QVZ3521-334	V.R.DRUM ADD PULSE WIDTH
R39	QRD161J-102	RESISTOR	i	R112	QRD161J-104	RESISTOR
R40	QRD161J-102	RESISTOR	1	R113	QRD161J-274	RESISTOR
7.40	41101010	1120101011	ì	R114		
541	0001/11/100	RESISTOR	İ		QRD161J-103	RESISTOR
R41	QRD161J-102		ļ.	R115	QRD161J-103	RESISTOR
R42	QRD161J-102	RESISTOR	{	R116	QRD161J-682	RESISTOR
R43	QRD161J-102	RESISTOR	j	R117	QRD161J-223	RESISTOR
R44	QRD161J-102	RESISTOR	1	R118	QRD161J-823	RESISTOR
R45	QRD161J-0R0	RESISTOR	1	R119	QRD161J-394	RESISTOR
R46	QRD161J-103	RESISTOR	1	R120	QRD161J-334	RESISTOR
R47	QRD161J-103	RESISTOR	}			
R48	QRD161J-102	RESISTOR	1	R121	QRD161J-223	RESISTOR
R49	QRD161J-103	RESISTOR	1	R122	QVZ3521-104	V.R,SPD F-V ADJ(LP)
R50	QRD161J-103	RESISTOR	1	R123	QVZ3521-473	V.R,SPD F-V ADJ(SP)
			1	R124	QRD161J-103	
R51	QRD161J-103	RESISTOR	1			RESISTOR
			1	R125	QRD161J-102	RESISTOR
R52	QRD161J-102	RESISTOR	1	R126	QVZ3521-105	V.R,DRUM A.P.POS.(24H)
R55	QRD161J-103	RESISTOR]			
			1	C101	QFV71HJ-104	M CAPACITOR
RAI	QRB087J-104	RESISTOR ARRAY	ı	C102	QFV71HJ-104	M CAPACITOR
RA2	QRB077J-104	RESISTOR ARRAY]	C103	QFV71HJ-104	M CAPACITOR
			1	C104	QFV71HJ-104	M CAPACITOR
C1	QFN31HJ-102	M CAPACITOR	1	C105	QER61HM-105	E CAPACITOR
62	QFN31HJ-102	M CAPACITOR	1 .	C106	QER61CM-106	E CAPACITOR
C3	QER61CM-226	E CAPACITOR		C107	QFN31HK-223	M CAPACITOR
	QER61CM-226	E CAPACITOR	i		QF 113111K-223	M CAPACITOR
C4			1	C108	QFN31HK-103	M CAPACITOR
C5	QER61CM-106	E CAPACITOR	1			
C6	QCS11HJ-391	CAPACITOR	1	TP101	PU54983	TEST PIN
C7	QCS11HJ-391	CAPACITOR	İ			
			1	CN5	PGZ01081-08	MICRO HEADER
L1	PU59152-101J	COIL	1	CN6	PGZ01081-07	MICRO HEADER
		*	1			
A CF1	PU59576	RESONATOR	***	******	*********	*****************
BUZ1	PGZ01299	BUZZER	1			
			1	****	*****	*********
SKT1	PGZ01313	IC SOCKET, (FOR IC1)	1	*		
2411	F6201313	ic sockery (For ici)	j			BOARD ASSY <10> *
701	D11E / 0.97	TEST PIN, X5		***	******	*************
TP1	PU54983	TEST FIR, AS				
0113	DUEGOCC JEV	CAD MOMETING	l	DUD	DD//7007/4	UTDEG
CN1	PU58844-15Y	CAP HOUSING	1	PWB	PRK30034A	VIDEO SUB BOARD ASSY
CN2	PU58844-15	CAP HOUSING				
CN3	PU58844-10	CAP HOUSING	1	IC1	BU3791	IC
			1			
********	***********	*******************	1	Q1	DTC144ES	TRANSISTOR
				Q2	DTC124ES	TRANSISTOR
			1	Q3	DTC144WS	TRANSISTOR
***	*****	*********	1		2.020	////// / / / / / / / / / / / / / / / /
*		SUB SERVO BOARD (2) ASSY <09*	1	D1	188133	DIODE
			1	51	133133	Grose
***		**********	1	D 1	0001/11 107	DECTOTOR
]	R1	QRD161J-103	RESISTOR
			}	R2	QRD161J-104	RESISTOR
PWBA2	PGE20321A2	TL SUB SERVO BOARD(2)ASSY	i	R3	QRD161J-104	RESISTOR
			ļ	R4	QRD161J-104	RESISTOR
IC101	BU4538B	IC	[R5	QRD161J-104	RESISTOR
IC102	BU4538B	IC	1	R6	QRD161J-822	RESISTOR
IC103	BA6302A	IC	1	R7	QRD161J-104	RESISTOR
IC104	UPC393C	IC	}	R8	QRD161J-103	RESISTOR
10104	5. 55756		1	R9		
		DIODE	1		QRD161J-563	RESISTOR
נחזת			į	R10	QRD161J-472	RESISTOR
D101	188133		1			
D102	188133	DIODE	1			
				Cı	QCBB1HJ-102	CAPACITOR
D102 D103	1SS133 1SS133	DIODE		C2	QCC11CK-104	CAPACITOR
D102 D103 R101	1SS133 1SS133 QVZ3521-104	DIODE DIODE V.R,REC CTL WIDTH ADJ		C2 C3	QCC11CK-104 QCB81HJ-102	CAPACITOR CAPACITOR
D102 D103 R101 R102	1SS133 1SS133 QVZ3521-104 QRD161J-104	DIODE DIODE V.R,REC CTL WIDTH ADJ RESISTOR		C2 C3 C4	QCC11CK-104	CAPACITOR
D102 D103 R101	1SS133 1SS133 QVZ3521-104	DIODE DIODE V.R,REC CTL WIDTH ADJ		C2 C3	QCC11CK-104 QCB81HJ-102	CAPACITOR CAPACITOR

#A REF NO.	PART NO.	PART NAME, DESCRIPTION	#A REF NO.	PART NO.	PART NAME, DESCRIPTION
C6	QFN31HJ-103	M CAPACITOR	Q111	DTC124EK	TRANSISTOR
			Q112	2SC2412K	TRANSISTOR
CN1	PU58844-7	CAP HOUSING	WIIZ	2302412K	INANGISION
CN2	PU58844-7R	CAP HOUSING		DANSOSK	CHIP DIODE ARRAY
CN3	PU58844~5	CAP HOUSING	D1	DAN202K	
CN4	PU58844-3	CAP HOUSING	DS	DAN202K	CHIP DIODE ARRAY
CN5	PU58844-2	CAP HOUSING	D3	DAN202K	CHIP DIODE ARRAY
			D4	DAN202K	CHIP DIODE ARRAY
*********	***********	*******************	D5	DAN202K	CHIP DIODE ARRAY
			D6	DAN202K	CHIP DIODE ARRAY
			D7	DAN202K	CHIP DIODE ARRAY
***	******	********			
*.			D102	DAP202K	DIODE
×××:	*******	********	D103	DAN202K	CHIP DIODE ARRAY

			R1	QRSA08J-100YN	RESISTOR
DUD	PB40029	AUDIO/CONTROL HEAD PWB	R2	QRSA08J-272YN	RESISTOR
PWB	P540027	RODIO, CONTINUE HEND I HE	R3	QRSA08J-100YN	RESISTOR
	PU58844-103	CAR HOUSTNE	R4	QRSA08J-272YN	RESISTOR
CN1			R5	QRSA08J-103Y	RESISTOR
CN2	PU58844-1048	CAP HOUSING	R6	QRSA08J-100YN	RESISTOR
				QRSA08J-272YN	RESISTOR
€ ¥% ¥ ¥****	*********	*******************	, , , , , , , , , , , , , , , , , , ,	QRSA08J-100YN	RESISTOR
			R8		
			R9	QRSA08J-272YN	RESISTOR
***		**************	R10	QRSA08J-103Y	RESISTOR
*		M BOARD <41> *	1		2525552
***	**********	***************	R11	QRSA08J-102	RESISTOR
		•	R12	QVZ3531-152	V RESISTOR, LP CH2 Q
			R13	QVZ3531-152	V RESISTOR, LP CH1 Q
PWB	PDM3017	UPPER DRUM BOARD	R14	QRSA08J-103Y	
			R15	QVZ3531-152	V RESISTOR, SP CH2 Q
********	**********	******************	R16	QRSA08J-102	RESISTOR
			R17	QRSA08J-821YN	
			R18	QVZ3531-152	V RESISTOR, SP CH1 Q
***	**********	*********	R19	QRD161J-333	RESISTOR
*		SOARD ASSY <43> *	R20	QRSA08J-101YN	RESISTOR
	*********	*************	-		
~~~			R21	QRSAO8J-393YN	RESISTOR
			R22	QRSA08J-222	RESISTOR
PWBA	PRK10031A-02	PRE/REC BOARD ASSY	R23	QRSA08J-103Y	RESISTOR
PWDA	FARTOSCIA GE	1 1127 1120 2011112 11301	R24	QRSA08J-183Y	RESISTOR
701	TA8609P	IC	R25	QRSA08J-393YN	RESISTOR
IC1	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	ic	R26	QRD161J-222	RESISTOR
IC2	TA8733F	ic	<b>A</b> R27	PU52108-150	POSITIVE THERMISTOR
IC3	MN4052BS	IC	R28	QRSA08J-221Y	RESISTOR
IC4	AN6392		R29	QRSA08J-102	RESISTOR
1C5	TC4S81F	IC	R30	QRSA08J-122YN	RESISTOR
IC6	TC4S71F	IC		anonoco ILL	
		**********	R31	QRSA08J-221Y	RESISTOR
Q1	2SC2412K	TRANSISTOR	R32	QRSA08J-102	RESISTOR
Q2	2SC2412K	TRANSISTOR		QRSA08J-122YN	RESISTOR
Q3	2SC2412K	TRANSISTOR	R33		RESISTOR
Q4	2SC2412K	TRANSISTOR	R34	QRSA08J-103Y	RESISTOR
Q5	2SA1036K(R)	TRANSISTOR	R35	QRSA08J-122YN	
Q6	DTC124EK	TRANSISTOR	R36	QRSA08J-103Y	RESISTOR RESISTOR
Q7	2SA1036K(R)	TRANSISTOR	R37	QRSA08J-122YN	
Q8	2SC2412K	TRANSISTOR	R38	QRSA08J-103Y	RESISTOR
Q9	2SC2412K	TRANSISTOR	R39	QRSA08J-122YN	RESISTOR
Q10	2SC2412K	TRANSISTOR	R40	QRSA08J-393YN	RESISTOR
					BEGTOTES
Q11	2SA1037K	TRANSISTOR	R41	QRSA08J-821YN	RESISTOR
Q12	DTC144EK	TRANSISTOR	R42	QRSA08J-393YN	RESISTOR
Q13	2SA1037K	TRANSISTOR	R43	QRSA08J-681YN	RESISTOR
Q14	DTC144EK	TRANSISTOR	R44	QRSA08J-393YN	RESISTOR
Q15	2SA1037K	TRANSISTOR	R45	QRSA08J-681YN	RESISTOR
Q16	DTC144EK	TRANSISTOR	R46	QRSA08J-623YN	RESISTOR
Q17	DTC144WK	TRANSISTOR	R47	QRSA08J-821YN	RESISTOR
Q19	DTC124EK	TRANSISTOR	R48	QRSA08J-680YN	RESISTOR
4.7	2,022,000		R49	QRSA08J-102	RESISTOR
0101	DTA124EK	TRANSISTOR	R50	QRSA08J-222	RESISTOR
Q101		TRANSISTOR			
Q103	DTC124EK	TRANSISTOR	R51	QRSA08J-332YN	RESISTOR
Q107	2SC2412K	TRANSISTOR	R52	QRSA08J-123YN	RESISTOR
Q108	2SA1037K	TRANSISTOR	R53	QRSAU8J-680YN	RESISTOR
Q109	2SC2412K	TRANSISTOR	R54	QRSA08J-472	RESISTOR
Q110	2SA1037K	INMISTSION	, ,,,,,,		==:=::

QRSADB   -102	PART NAME, DESCRIPTION
	6 E CAPACITOR
Result	
R GRANDBJ-BEZYN RESISTOR  QRSANDBJ-BEZYN RESISTOR  QRSANDBJ-BEZYN RESISTOR  QRSANDBJ-BIYN RESISTOR  QRSANDBJ-BIYN RESISTOR  QRSANDBJ-BIYN RESISTOR  QRSANDBJ-ZZ3YY RESISTOR  QRSANDBJ-ZZ3YY RESISTOR  QRSANDBJ-ZZ3YY RESISTOR  QRSANDBJ-ZZ3YY RESISTOR  QRSANDBJ-ZZ3YY RESISTOR  QRSANDBJ-ZZ3YY RESISTOR  QRSANDBJ-ZZ3YY RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-102 RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-122YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RESISTOR  QRSANDBJ-101YN RE	15 TANTAL CAPACITOR
QRSANBJ-BIYN RESISTOR	
QRSAOBJ-103Y RESISTOR	
1 QRSAOBJ-561YN RESISTOR C45 QCFA1HZ-1 01 QRSAOBJ-23Y RESISTOR C46 QCFA1HZ-1 02 QRSAOBJ-223Y RESISTOR C47 QCFA1HZ-1 02 QRSAOBJ-275YN RESISTOR C49 QRSAOBJ-275YN RESISTOR C49 QRSAOBJ-275YN RESISTOR C49 QRSAOBJ-102 RESISTOR C50 QCFA1HZ-1 16 QRSAOBJ-102 RESISTOR C51 QRN4HJ-2 17 QRSAOBJ-102 RESISTOR C52 QRSAOBJ-102 RESISTOR C53 QRSAOBJ-102 RESISTOR C54 QCFA1HZ-1 20 QRSAOBJ-102 RESISTOR C55 QCFA1HZ-1 21 QRSAOBJ-102 RESISTOR C55 QCFA1HZ-1 22 QRSAOBJ-104 RESISTOR C55 QCFA1HZ-1 23 QRSAOBJ-104 RESISTOR C56 QCFA1HZ-1 24 QRSAOBJ-104 RESISTOR C56 QCFA1HZ-1 25 QRSAOBJ-102 RESISTOR C57 QCSA1HJ-1 26 QRSAOBJ-102 RESISTOR C57 QCSA1HJ-1 27 QRSAOBJ-102 RESISTOR C59 QCSA1HJ-1 28 QRSAOBJ-102 RESISTOR C59 QCSA1HJ-1 29 QRSAOBJ-102 RESISTOR C61 PH00733-50 20 QRSAOBJ-102 RESISTOR C61 PH00733-50 20 QRSAOBJ-102 RESISTOR C62 PH00733-50 21 QRSAOBJ-102 RESISTOR C63 PH00733-50 22 QRSAOBJ-104 RESISTOR C63 PH00733-50 23 QRSAOBJ-104 RESISTOR C64 QRSAOBJ-104 RESISTOR C65 PH00733-50 24 QRSAOBJ-105 RESISTOR C65 PH00733-50 25 QRSAOBJ-105 RESISTOR C65 PH00733-50 26 QRSAOBJ-105 RESISTOR C64 PH00733-50 27 QRSAOBJ-101 RESISTOR C68 PH00733-50 28 QRSAOBJ-102 RESISTOR C68 PH00733-50 29 QRSAOBJ-101 RESISTOR C68 PH00733-50 29 QRSAOBJ-101 RESISTOR C68 PH00733-50 20 QRSAOBJ-101 RESISTOR C61 QCSA1HJ-1 20 QCSA1HJ-1 20 QCSA1HJ-1 21 QCFA1HZ-1 21 QCFA1HZ-1 22 QCSA1HJ-1 23 QCFA1HZ-1 24 QCFA1HZ-1 25 QCFA1HZ-1 26 QCFA1HZ-1 27 QCFA1HZ-1 28 QCFA1HZ-1 29 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA1HZ-1 20 QCFA	
QRSAOBJ-B61YN RESISTOR	
ORSAOBJ-223Y   RESISTOR   C48   QERSOLM-2	33 CAPACITOR
QRSAOBJ-223Y   RESISTOR	3 CAPACITOR
01 QRSAOBJ-223Y RESISTOR C49 QRSO,M-0 2 QRSAOBJ-273YN RESISTOR C49 QRSAOBJ-02 15 QRSAOBJ-102 RESISTOR C50 QCFA1HZ-1 16 QRSAOBJ-102 RESISTOR C52 QFMA1HZ-1 17 QRSAOBJ-102 RESISTOR C52 QFMA1HZ-1 18 QRSAOBJ-102 RESISTOR C52 QFMA1HZ-1 19 QRSAOBJ-102 RESISTOR C53 QERSIHM-1 19 QRSAOBJ-102 RESISTOR C54 QCSA1HZ-1 20 QRSAOBJ-102 RESISTOR C55 QCFA1HZ-1 21 QRSAOBJ-102 RESISTOR C55 QCFA1HZ-1 22 QRSAOBJ-102 RESISTOR C55 QCFA1HZ-1 23 QRSAOBJ-122YN RESISTOR C56 QCFA1HZ-1 24 QRSAOBJ-122YN RESISTOR C56 QCFA1HZ-1 25 QRSAOBJ-122YN RESISTOR C56 QCFA1HZ-1 26 QRSAOBJ-102 RESISTOR C59 QCFA1HZ-1 27 QRSAOBJ-102 RESISTOR C60 QCC302MS-1 28 QRSAOBJ-102 RESISTOR C61 PU60733-50 29 QRSAOBJ-122YN RESISTOR C61 PU60733-50 20 QRSAOBJ-102 RESISTOR C62 QCG301HJ-1 25 QRSAOBJ-102 RESISTOR C63 PU60733-50 27 QRSAOBJ-102 RESISTOR C63 PU60733-50 28 QRSAOBJ-102 RESISTOR C63 PU60733-50 29 QRSAOBJ-101NN RESISTOR C64 PU60733-50 29 QRSAOBJ-101NN RESISTOR C65 PU60733-50 29 QRSAOBJ-101NN RESISTOR C64 PU60733-50 29 QRSAOBJ-102 RESISTOR C64 PU60733-50 20 QRSAOBJ-102 RESISTOR C64 PU60733-50 20 QRSAOBJ-103 CAPACITOR C110 QCFA1HZ-1 20 QCFA1HZ-103 CAPACITOR C111 QCFA1HZ-1 21 QCFA1HZ-103 CAPACITOR C112 QCFA1HZ-1 21 QCFA1HZ-103 CAPACITOR C113 QCSA1HJ-640 C4PACITOR C114 QCSA1HJ-640 C4PACITOR C115 QCSA1HJ-640 CAPACITOR C116 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1HJ-640 CAPACITOR C117 QCSA1	3 CAPACITOR
02         QRSAOBJ-273YN         RESISTOR         C50         QCFAINT-CSD           15         QRSAOBJ-102         RESISTOR         C51         QFNA1HJ-1           17         QRSAOBJ-102         RESISTOR         C52         QFNA1HJ-1           18         QRSAOBJ-102         RESISTOR         C53         QERSHIM-1           19         QRSAOBJ-102         RESISTOR         C54         QCSAHJ-1           20         QRSAOBJ-102         RESISTOR         C55         QCFAHZ-1           21         QRSAOBJ-162         RESISTOR         C56         QCFAHZ-1           22         QRSAOBJ-621VN         RESISTOR         C56         QCFAHZ-1           23         QRSAOBJ-621VN         RESISTOR         C61         QCFAHZ-1           24         QRSAOBJ-122VN         RESISTOR         C61         PUB0733-50           25         QRSAOBJ-122VN         RESISTOR         C62         PUB0733-50           27         QRSAOBJ-101VN         RESISTOR         C63         PUB0733-50           27         QRSAOBJ-101VN         RESISTOR         C64         PUB0733-50           29         QRSAOBJ-102         RESISTOR         C64         PUB0733-50           29 <td< td=""><td></td></td<>	
S	
15   QRSAOBJ-071VN	
1	3 CAPACITOR
17	
18   QRSAOBJ-102   RESISTOR   C53   QERSIMP-4	73 M CAPACITOR
18   QRSAOBJ-122YN RESISTOR   C54   QCSAIHJ-4	3 M CAPACITOR
19   QRSAOBJ-102   RESISTOR   C54   QCSA1HJ-20	D5 E CAPACITOR
QRSAOBJ-102   RESISTOR   C55   QCFA1HZ-12   QRSAOBJ-51YN   RESISTOR   C56   QCFA1HZ-12   QRSAOBJ-51YN   RESISTOR   C57   QCFA1HZ-12   QRSAOBJ-51YN   RESISTOR   C58   QCFA1HZ-12   QRSAOBJ-51YN   RESISTOR   C58   QCFA1HZ-12   QRSAOBJ-122YN   RESISTOR   C60   QCZ020B-12   QRSAOBJ-122YN   RESISTOR   C60   QCZ020B-12   QRSAOBJ-122YN   RESISTOR   C61   PU60733-50   QCFA1HZ-12   QRSAOBJ-122YN   RESISTOR   C61   PU60733-50   QCFA1HZ-12   QRSAOBJ-61YN   RESISTOR   C62   PU60733-50   QCFA1HZ-12   QRSAOBJ-61YN   RESISTOR   C64   PU60733-50   QCFA1HZ-10	70 CAPACITOR
21 QRSA0BJ-471VN RESISTOR C56 QCFA1HZ-122 QRSA0BJ-561VN RESISTOR C57 QCSA1HJ-7 22 QRSA0BJ-561VN RESISTOR C58 QCFA1HZ-123 QRSA0BJ-122VN RESISTOR C59 QCSA1HJ-124 QRSA0BJ-102 RESISTOR C60 QCZ020B C59 QCSA1HJ-125 QRSA0BJ-122VN RESISTOR C60 QCZ020B C56 QRSA0BJ-122VN RESISTOR C62 PU80733-50 C62 QRSA0BJ-122VN RESISTOR C62 PU80733-50 C62 QRSA0BJ-122VN RESISTOR C62 PU80733-50 C63 PU80733-50 C63 QRSA0BJ-122VN RESISTOR C63 QRSA0BJ-301VN RESISTOR C64 PU80733-50 C63 QRSA0BJ-681VN RESISTOR C64 PU80733-50 C64 QRSA0BJ-101VN RESISTOR C64 PU80733-50 C64 QRSA0BJ-101VN RESISTOR C64 PU80733-50 C64 QRSA0BJ-101VN RESISTOR C64 PU80733-50 C65 QRSA0BJ-101VN RESISTOR C64 PU80733-50 C65 QRSA0BJ-101VN RESISTOR C65 QRSA0BJ-102 RESISTOR C110 QCFA1HZ-103 QRSA1HJ-103 QRSA0BJ-102 RESISTOR C111 QCFA1HZ-103 QRSA1HJ-103 QRSA1HJ-103 QRSA0BJ-102 RESISTOR C111 QCFA1HZ-103 QRSA1HJ-103 Q	
21 QRSADBJ-4-71YN RESISTOR C56 QCFA1HZ-1 22 QRSADBJ-561YN RESISTOR C58 QCFA1HZ-1 23 QRSADBJ-122YN RESISTOR C60 PU60733-50 24 QRSADBJ-102 RESISTOR C61 PU60733-50 25 QRSADBJ-102 RESISTOR C61 PU60733-50 26 QRSADBJ-102YN RESISTOR C62 PU60733-50 27 QRSADBJ-22YN RESISTOR C63 PU60733-50 28 QRSADBJ-22YN RESISTOR C63 PU60733-50 29 QRSADBJ-101YN RESISTOR C64 PU60733-50 29 QRSADBJ-101YN RESISTOR C65 PU60733-50 29 QRSADBJ-101YN RESISTOR C64 PU60733-50 30 PU57457-682 V RESISTOR, FE Q C101 QCFA1HZ-1 31 QRSADBJ-102 RESISTOR C111 QCFA1HZ-1 32 QCFA1HZ-103 CAPACITOR C111 QCFA1HZ-1 33 QCFA1HZ-103 CAPACITOR C111 QCFA1HZ-1 34 QRSADBJ-102 RESISTOR C111 QCFA1HZ-1 35 QCFA1HZ-103 CAPACITOR C111 QCSA1HJ-1 36 QCFA1HZ-103 CAPACITOR C111 QCSA1HJ-1 37 QCFA1HZ-103 CAPACITOR C111 QCSA1HJ-1 38 QCFA1HZ-103 CAPACITOR C111 QCSA1HJ-1 39 QCFA1HZ-103 CAPACITOR C111 QCSA1HJ-1 40 QCSA1HJ-680 CAPACITOR C111 QCFA1HZ-1 40 QCSA1HJ-680 CAPACITOR C111 QCFA1HZ-1 41 QCSA1HJ-680 CAPACITOR C112 QCFA1HZ-1 41 QCSA1HJ-680 CAPACITOR C112 QCFA1HZ-1 41 QCSA1HJ-670 CAPACITOR C112 QCFA1HZ-1 41 QCSA1HJ-670 CAPACITOR L5 PU68530-1 41 QCFA1HZ-103 CAPACITOR L5 PU68530-1 41 QCFA1HZ-103 CAPACITOR L5 PU68530-1 41 QCFA1HZ-103 CAPACITOR L5 PU68530-1 41 QCFA1HZ-103 CAPACITOR L10 PU59152-1 41 QCFA1HZ-103 CAPACITOR L10 PU59152-1 41 QCFA1HZ-103 CAPACITOR L10 PU59152-1 41 QCFA1HZ-103 CAPACITOR L10 PU59152-2 42 QCFA1HZ-103 CAPACITOR L10 PU59152-2 43 QCFA1HZ-103 CAPACITOR L10 PU59152-2 44 QCFA1HZ-103 CAPACITOR L10 PU59152-2 45 QCFA1HZ-103 CAPACITOR L10 PU59152-2 46 QCFA1HZ-103 CAPACITOR L10 PU59152-2 47 QCFA1HZ-103 CAPACITOR L10 PU59152-2 48 QCFA1HZ-103 CAPACITOR L10 PU59152-2 49 QCFA1HZ-103 CAPACITOR L10 PU59152-2 40 QCFA1HZ-103 CAPACITOR L10 PU59152-2 40 QCFA1HZ-103 CAPACITOR L10 PU59152-2 40 QCFA1HZ-103 CAPACITOR L10 PU59152-2 40 QCFA1HZ-103 CAPACITOR L10 PU59152-2 40 QCFA1HZ-103 CAPACITOR L10 PU59152-2 40 QCFA1HZ-103 CAPACITOR L10 PU59152-2 40 QCFA1HZ-103 CAPACITOR L10 PU59152-2 40 QCFA1HZ-103 CAPACITOR SCW2 DFSP26062 40 QCFA1HZ-103 CAPACITOR SCW2 DFSP26062 40 QCFA1HZ-103 CAPACITOR	
22   QRSAOBJ-161YN RESISTOR   C58   QCFA1HZ-122   QRSAOBJ-122YN RESISTOR   C59   QCSA1HJ-122   QRSAOBJ-102   RESISTOR   C60   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ020B1   QCZ0	
QCFA1HZ-103	
24   QRSAOBJ-B21YN RESISTOR   C60   QC2020B2	
25	
25	14 MC CAP
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Q	1	PN268R-NC	PHOTO TRANSISTOR			QRB099J-104	NETWORK RESISTOR
н	D1	PQ31047-1-4	END SENSOR HOLDER		C1	QER61CM-476	E CAPACITOR
<b>C</b> 1	N1	PU59945-102	WIRE SOCKET	1	C2 C3	QCVB1CN-103 QER61CM-106	CAPACITOR E CAPACITOR
U		F UD / / TD = 10E		•			

± A RF	EE NO.	PART NO.	PART NAME, DESCRIPTION	#A	REF NO.	PART NO.	PART NAME, DESCRIPTION
C4	4	QER61CM-106	E CAPACITOR		C111	QCXB1CN-152	CAPACITOR
C5	5	QER41AM-107	E CAPACITOR		C112	QCSB1HJ-220	CAPACITOR
Cé	6	PU57672-400	TRIMM.C,TIME DATE POS ADJ		C113	QCVB1CM-103	CAPACITOR
C7		QER61CM-476	E CAPACITOR		C114	QCVB1CM-103	CAPACITOR
CE		QCVB1CN-103	CAPACITOR		C115	QFN31HJ-222	M CAPACITOR
C	5	ACABICK 100	ON 701 1011		C116	QER61HM-105	E CAPACITOR
LI	3	PU59152-101J	COIL				
LZ		PU59152-100J	COIL	1	L101	PU58333-180K	COIL
	•			[	L102	PU59152-100J	COIL
Æ CF	<b>-</b> 1	PU59576	RESONATOR				
ای دی				Δ	CF101	PU60086	CERAMIC FILTER
er	CW1	SDSP2606Z	SCREW, X2	i –			
	CW2	SDSP2604M	SCREW, X2		TP101	PU56008	TEST-PIN
•	0112	020, 200		1			
SI	KT1	PGZ01001	IC SOCKET, (FOR IC1)	1	CN101	PGZ01081-09	MICRO HEADER
0,		PU44398	FUSE SOCKET, X2	İ	CN102	PGZ01081-03	CAP HOUSING
		. 044070		1	CN103	PGZ01081-03	CAP HOUSING
er	PC1	PRD43011	SHEET				
31	rui	FRD43011	0.1.2.1	***	******	**********	************
TF	P1	PU54983	TEST PIN, X5				
.,	• •						
Ct	N1	PU58844-7	CAP HOUSING	1	****	***********	**********
	N2	PU58844-8Y	CAP HOUSING	l	*	23. REAR BOARD	) ASSY <76> *
	N3	PU58844-3R	CAP HOUSING	1	****	***********	***************
Ç.	110	1030044 011		l			
6¥ 20 ¥¥	*****	************	**************	ĺ			
(A, , AA.)				1	PWBA	PGE20331A-02	REAR BOARD ASSY
				1			
	****	****	**************************************		D201	RD5.1EB	ZENER DIODE
			DATE/BATTERY BOARD(2) ASSY <*	1 .	D203	RD5.1EB	ZENER DIODE
	*		**************************************	•	5200	ND3.125	ZENER DIODE
	***	*****	****************	ļ	R201	QRD167J-750	RESISTOR
				1	KZUI	4KD1010-150	RESISTOR
		2050071542 01	ON OCCUPANTED POADD (2) ACCU	ı	RA201	0000071-107	RESISTOR ARRAY
P	WBA2	PGE20315A2-01	ON SCREEN/BATTERY BOARD(2)ASSY	}		QRB087J-103	
				į .	UK	QRB089J-103	RESISTOR ARRAY
	C101	MB89010A-108	IC	1			
I	C102	BU4013B	IC	1	C505	QCF31HP-223	CAPACITOR
	OR	TC4013BP	IC	1	C203	QCF31HP-103	CAPACITOR
I,	C103	M52684AP	IC .	l			
				Ì	\$201	PGZ00469-02	SLIDE SWITCH
Q	101	2SA1309R,S	TRANSISTOR	l	S202	QSS1K81-L01	DIP SWITCH
	102	DTC114EF	TRANSISTOR	l			
_				١.	TB1	PGZ01267-03	TERMINAL BOAD
R	101	QRD161J-472	RESISTOR				
	102	QRD161J-102	RESISTOR	A	VA201	PU49624-2	VARISTOR
	103	QRD161J-102	RESISTOR		VA203.	PU49624-2	VARISTOR
		QRD161J-102	RESISTOR	-			
	104			1	CN201	PU59513-4	CAP HOUSING
	105	QRD161J-102	RESISTOR	l			CAP HOUSING
	106	QRD161J-472	RESISTOR	l	CN202	PU59513-4R	
	107	QRD161J-222	RESISTOR	1	CN203	PU58844-102	CAP HOUSING
	108	QRD161J-681	RESISTOR	1	CN204	PU58844-110	CAP HOUSING
	109	QRD161J-222	RESISTOR		CN205	PU58844-105	CAP HOUSING
R	110	QRD161J-103	RESISTOR			-	
				***	******	**********	***********
R	111	QRD161J-102	RESISTOR				
R	112	QRD161J-471	RESISTOR	1			
	113	QRD161J-182	RESISTOR	1	****	***********	***************
	114	QRD161J-154	RESISTOR	1	*		DARD ASSY <77> *
	115	QRD161J-271	RESISTOR		***	***********	**********
	116	QRD161J-152	RESISTOR	1			
	117	QRD161J-103	RESISTOR	1			
	118	QRD161J-103	RESISTOR	ł	PWBA	PGE20314A	DISPLAY BOARD ASSY
K		<b>6401010-100</b>		l			
		QER61CM-476	E CAPACITOR	ł	ICl	MSC7112-01SS	IC
^		QCVB1CM-103	CAPACITOR	1	IC2	M50253P	IC
	101	ACADICHLI 102			102		
C	102			ł			
C	102	PU57601-335MC	E CAPACITOR	1		DTCIAAEC	TDANCTCTOD
C C	102 103 104	PU57601-335MC QCVB1CM-103	CAPACITOR		01	DTC144EF	TRANSISTOR
0000	102 103 104 105	PU57601-335MC QCVB1CM-103 QCSB1HJ-150	CAPACITOR CAPACITOR		Q2 Q1	DTC144EF DTC144EF	TRANSISTOR TRANSISTOR
0000	102 103 104 105	PU57601-335MC QCVB1CM-103 QCSB1HJ-150 QCSB1HJ-330	CAPACITOR CAPACITOR CAPACITOR		Ø5	DTC144EF	TRANSISTOR
0000	102 103 104 105	PU57601-335MC QCVB1CM-103 QCSB1HJ-150	CAPACITOR CAPACITOR CAPACITOR E CAPACITOR		Q2 D1	DTC144EF RD7.5EB2	TRANSISTOR ZENER DIODE
00000	102 103 104 105	PU57601-335MC QCVB1CM-103 QCSB1HJ-150 QCSB1HJ-330	CAPACITOR CAPACITOR CAPACITOR E CAPACITOR CAPACITOR CAPACITOR		Q2 D1 D2	DTC144EF RD7.5EB2 1SS132	TRANSISTOR  ZENER DIODE  DIODE
00000	102 103 104 105 106 107	PU57601-335MC QCVB1CM-103 QCSB1HJ-150 QCSB1HJ-330 QER61HM-335GZ	CAPACITOR CAPACITOR CAPACITOR E CAPACITOR		Q2 D1 D2 D3	DTC144EF RD7.5EB2 1SS132 1SS132	TRANSISTOR  ZENER DIODE DIODE DIODE
0 0 0 0 0	102 103 104 105 106 107	PU57601-335MC QCVB1CM-103 QCSB1HJ-150 QCSB1HJ-330 QER61HM-335GZ QCBB1HJ-101	CAPACITOR CAPACITOR CAPACITOR E CAPACITOR CAPACITOR CAPACITOR		Q2 D1 D2	DTC144EF RD7.5EB2 1SS132	TRANSISTOR  ZENER DIODE  DIODE  DIODE  LE DIODE
0000000	102 103 104 105 106 107 108	PU57601-335MC QCVB1CM-103 QCSB1HJ-150 QCSB1HJ-330 QER61HM-335GZ QCBB1HJ-101 QER61CM-106	CAPACITOR CAPACITOR CAPACITOR E CAPACITOR CAPACITOR E CAPACITOR E CAPACITOR		Q2 D1 D2 D3	DTC144EF RD7.5EB2 1SS132 1SS132	TRANSISTOR  ZENER DIODE DIODE DIODE

#1		PART NO.	PART NAME, DESCRIPTION	*A	REF NO.	PART NO.	PART NAME, DESCRIPTION
	D6	188133	DIODE		D9 D10	1SS133 1SS133	DIODE
	R1	QRD167J-102	RESISTOR	i			
	R2	QRD167J-102	RESISTOR	1	D11	188133	DIODE
	R3	QRD167J-102	RESISTOR		D12	V03C	DIODE
		QRD167J-273	RESISTOR	I	D13	188133	DIODE
	R4			l	0.0	100100	DICOL
	R5	QRD167J-103	RESISTOR	l	D 1	0001771-107	RESTERM
	R6	QRD167J-221	RESISTOR	1	R1	QRD167J-103	RESISTOR
	R7	QRD167J-331	RESISTOR	l	R2	QRD167J-104	RESISTOR
	R8	QRD167J-472	RESISTOR	1	R3	QRD167J-103	RESISTOR
	R9	QRD167J-472	RESISTOR	1	R4	QRD167J-104	RESISTOR
	R10	QRD167J-472	RESISTOR	l	R5	QRD167J-333	RESISTOR
				j	R6	QRD167J-333	RESISTOR
	R11	QRD167J-223	RESISTOR	l	R7	QVZ3507-104	V RESISTOR
	R12	QRD167J-472	RESISTOR	l	R8	QRD167J-224	RESISTOR
	KIZ	GKD1675-472	KESISTON	1	R9	QRD167J-102	RESISTOR
			DECICION ADDAY				
	RAI	QRB037J-222	RESISTOR ARRAY	1	R10	QRD167J-473	RESISTOR
				l			
	C1	QCBB1HJ-101	CAPACITOR	1	R11	QRD167J-104	RESISTOR
	C2	QER61HM-104	E CAPACITOR	l l	R12	QRD167J-563	RESISTOR
	C3	QCF11HP-223	CAPACITOR	•			
	C4	QER60JM-336	E CAPACITOR	1	C1	QER41CM-476	E CAPACITOR
	C5	QCS31HJ-560	CAPACITOR	1	C2	QFN41HJ-102	M CAPACITOR
	C6	QCF11HP-473	CAPACITOR	i	C3	QFN41HJ-102	M CAPACITOR
				į .	C4		
	C7	QCS31HJ-560	CAPACITOR	ł		QER41CM-476	E CAPACITOR
	C8	QCS31HJ-560	CAPACITOR	ı	C5	QFN41HK-103	M CAPACITOR
	C9	QCS31HJ-680	CAPACITOR	1	C6	QFN41HK-103	M CAPACITOR
	C10	QCS31HJ-680	CAPACITOR	•	C7	QFN41HK-103	M CAPACITOR
				j	C8	QER41EM-335	E CAPACITOR
	FDP1	PGZ01390	FLUORESCENT DISPLAY PANEL	1	C9	QCS11HJ-221	CAPACITOR
					C18	QER41HM-474	E CAPACITOR
A	TH1	PU52108-100K	POSITIVE THERMISTOR	l			
دهد					C11	QCC11EJ-223	CAPACITOR
	CL1	PU59311-2	WIRE CLAMP			1001111 111	
	CLI	7057311 2	WINE, OLAFII	1	L1	PU48530-181J	COIL
	upa	DDD41477	LED HOLDER	1		F040550 1015	COIL
	HD1	PRD41673	LED HOLDER	i			
	HD2	PQ40113-1-1	LED HOLDER	ı	CN1	PU58844-109	CAP HOUSING
	HD3	PQ31309	FDP HOLDER(L)		CN2	PU58844-102Y	CAP HOUSING
	HD4	PQ31310	FDP HOLDER(R)	ł			
				***	******	***********	**************
	SPC1	PRD30030-33	PAD				
	SPC2	PRD42546	DISPLAY SHEET	1			
	SPC3	PRD30030-15	PAD		***	*****	*********
				l	*	26. TIMER BOAR	D ASSY <79> *
	WRI	PGW0202-080060	PARALLEL WIRE		****		*******
	A	. •		i			
	CN1	PGZ01070-06	CAP HOUSING	l			
				1	PWBA	PPV200E1A	TIMED BOADD ACCV
	CN2	PU58844-103	CAP HOUSING	ļ	FWDA	PRK20051A	TIMER BOARD ASSY
	CN3	PU58844-102	CAP HOUSING	1			
	CN4	PU59513-12	CAP HOUSING	l	ICl	UPD75216ACW-B05	
	CN5	PU58844-105	CAP HOUSING	İ	IC2	M5278L56	IC
				i	IC3	IC-PST523H-2	IC
<b>!</b> ₩ #	******	************	****************	1	IC4	IC-PST523H-2	IC
				1			
				1	Ql	2SC3311A(RS)	TRANSISTOR
	****	***********	*********	i			
	×	25. CLEANER BO	ARD ASSY <78> *	i	D1	RD9.1ES-T1B2	ZENER DIODE
	****		*********	1	D2	188133	DIODE
	~~~	***************************************	***************************************	i	D3	188133	DIODE
				i	D4	RD8.2ES-T1B2	ZENER DIODE
		505556445	0151450 00100 1004	ĺ			
	PWBA	PGE20264B	CLEANER BOARD ASSY	i	D5	188133	DIODE
				I	D6	188133	DIODE
	IC1	TC4011UBP	IC	ı	D7	RD7.5ES-T1B1	ZENER DIODE
	IC2	TC4040BP	IC	I	D8	188133	DIODE
	IC3	TC4069UBP	IC	I	D9	LTZ-MR15	DIODE
	IC4	BA222	IC	ľ	D10	1SS133	DIODE
			= -	l			
	Q1	2SD973R	TRANSISTOR		D11	188133	DIODE
	A T	2307/3R	I HONGE TO LONG	l			DIODE
		100177	DIOCC	1	D12	188133	
	D1	1SS133	DIODE	l	D13	1SS133	DIODE
	D2	1SS133	DIODE	1	D14	188133	DIODE
	D4	188133	DIODE				
	D4 D7	188133 188133	DIODE		RI	QRD161J-472	RESISTOR
					R1 R2	QRD161J-472 QRD161J-682	RESISTOR RESISTOR

R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R16 R17	QRD161J-104 QRD161J-471 QRD161J-102 QRD161J-333 QRD161J-102 QRD161J-224 QRD161J-473 QRD161J-473	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR		C7 C9 C10	QCF31HP-103 QETC1HM-225 QEK61HM-336	CAPACITOR E CAPACITOR
R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R16 R17	QRD161J-471 QRD161J-102 QRD161J-333 QRD161J-102 QRD161J-224 QRD161J-473	RESISTOR RESISTOR RESISTOR RESISTOR		C9	QETC1HM-225	
R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R16 R17	QRD161J-102 QRD161J-333 QRD161J-102 QRD161J-224 QRD161J-473	RESISTOR RESISTOR RESISTOR				E CARACTTOR
R6 R7 R8 R9 R10 R11 R12 R13 R14 R16 R17	QRD161J-333 QRD161J-102 QRD161J-224 QRD161J-473	RESISTOR RESISTOR			Z	E CAPACITOR
R7 R8 R9 R10 R11 R12 R13 R14 R16 R17	QRD161J-102 QRD161J-224 QRD161J-473	RESISTOR	ı			
R8 R9 R10 R11 R12 R13 R14 R16 R17 R18	QRD161J-224 QRD161J-473			C11	QCT30CH-120	CAPACITOR
R9 R10 R11 R12 R13 R14 R16 R17 R18	QRD161J-473	RESISTOR	1	C12	QAT3661-200	TRIMMER CAPACITOR, CLOCK ADJ
R10 R11 R12 R13 R14 R16 R17 R18		RESISTOR		C13	QCS31HJ-330	CAPACITOR
R11 R12 R13 R14 R16 R17 R18	MUDIOID IDE	RESISTOR	I	C14	QCS31HJ-330	CAPACITOR
R12 R13 R14 R16 R17 R18		WE015.6W	l l	C15	QETC1CM-476	E CAPACITOR
R12 R13 R14 R16 R17 R18	QRD161J-123	RESISTOR		C16	QCF31HP-473	CAPACITOR
R13 R14 R16 R17 R18	QRD161J-223	RESISTOR	1	C17	QETA1AM-477	E CAPACITOR
R14 R16 R17 R18		RESISTOR		C18	QETC1HM-105	E CAPACITOR
R16 R17 R18	QRD161J-0R0	RESISTOR	1	010	42.02	
R17 R18	QRD161J-223	RESISTOR		Xl	PU60226-4	CRYSTAL RESONATOR
R18	QRD161J-472	RESISTOR		X2	PU58394	CRYSTAL RESONATOR
	QRD161J-472	RESISTOR	44	. ^_	. 020374	SK (STRE KESSKATSK
K13	QRD161J-472			RYl	PU55260	RELAY
	QRD161J-472	RESISTOR	45		F055260	RELAT
R20	QRD161J-103	RESISTOR		****	DUE2109-100K	POSITIVE THERMISTOR
				THI	PU52108-100K	
R21	QRD161J-103	RESISTOR	4	TH2	PU52108-100K	POSITIVE THERMISTOR
R22	QRD161J-103	RESISTOR	İ		00701011	70 000KET (500 TOT)
R23	QRD161J-103	RESISTOR	l	SKT1	PGZ01001	IC SOCKET, (FOR IC1)
R24	QRD161J-103	RESISTOR	ŀ			
R25	QRD161J-103	RESISTOR	i	SPC1	PU59210-001	W.LOCKING SPACE, X2
R26	QRD161J-103	RESISTOR	l			
R27	QRD161J-103	RESISTOR	ì	TP1	PU54983	TEST PIN, X5
R28	QRD161J-103	RESISTOR				
R29	QRD161J-103	RESISTOR		CN1	PGZ01298-16	CAP HOUSING
R30	QRD161J-103	RESISTOR		CNS	PU58844-8Y	CAP HOUSING
1130	4.02010 200		į.	CN3	PGZ01298-06	CAP HOUSING
R31	QRD161J-103	RESISTOR	1	CN4	PU58844-7	CAP HOUSING
R32	QRD161J-102	RESISTOR		CN5	PU58844-9R	CAP HOUSING
	QRD161J-104	RESISTOR	į.			
R33		RESISTOR	***	****	******	************
R34	QRD161J-104	RESISTOR	"""			
R35	QRD161J-102	RESISTOR				
R36	QRD161J-102			***	****	********
R37	QRD161J-103	RESISTOR		*	• • • • • • • • • • • • • • • • • • • •	1 BOARD ASSY <92> *
R38	QRD161J-103	RESISTOR	ı			********
R39 R40	QRD161J-103 QRD161J-103	RESISTOR RESISTOR	1	,,,,		,
		DECYCTOD	İ	PWBA	PGE10139A	OPERATION BOARD ASSY
R41	QRD161J-334	RESISTOR		FWDM	FGEIGI37A	OFERATION GORNE ASSI
R42	QRD161J-102	RESISTOR	į	PWBAI	PGE10139A1	OPERATION 1 BOARD ASSY
R43	QRD161J-103	RESISTOR	}	PMBAT	PGEIGIS9NI	DEERATION I BOARD ASST
R44	QRD161J-103	RESISTOR	. 1	TO3	1 47225	ıc
R45	QRD161J-102	RESISTOR	1	ICl	LA7225	10
R46	QRD161J-104	RESISTOR	i	0.1	20417002 6	TRANSTETOR
R47	QRD161J-472	RESISTOR	1	Q1	2SA1309R,S	TRANSISTOR
R48	QRD161J-472	RESISTOR	1		010 554075	LE DYONE
R49	QRD161J-472	RESISTOR		D1	SLR-55VC3F	LE DIODE
R50	QRD161J-472	RESISTOR	1			DEGLETOD
			1	R1	QRD161J-223	RESISTOR
R51	QRD161J-472	RESISTOR		R2	QRD161J-104	RESISTOR
R52	QRD161J-223	RESISTOR	Į	R3	QRD161J-120	RESISTOR
R53	QRD161J-223	RESISTOR	l	R4	QRD161J-152	RESISTOR
R54	QRD161J-104	RESISTOR	į	R6	QRD161J-102	RESISTOR
R55	QRD161J-103	RESISTOR	1	R7	QRD161J-104	RESISTOR
R56	QRD161J-104	RESISTOR	1	R8	QRD161J-102	RESISTOR
R57	QRD161J-104	RESISTOR	1	R 9	QRD161J-222	RESISTOR
R59	QRD161J-103	RESISTOR	ì	R10	QRD161J-223	RESISTOR
						DECICION
R62	QRD161J-ORO	RESISTOR	İ	RII	QRD161J-331	RESISTOR
			1	R12	QRD161J-222	RESISTOR
RA1	QRB067J-104	NETWORK RESISTOR	-	R13	QRD161J-222	RESISTOR
	OR QRB069J-104	NETWORK RESISTOR	l	R14	QRD161J-332	RESISTOR
RA2	QRB077J-104	NETWORK RESISTOR	ļ	R15	QRD161J-472	RESISTOR
	OR QRB079J-104	NETWORK RESISTOR	1	R16	QRD161J-103	RESISTOR
			Ţ	R17	QRD161J-222	RESISTOR
C1	QETC1CM-336	E CAPACITOR	1	R18	QRD161J-222	RESISTOR
C2	QETC1CM-336	E CAPACITOR	1	R19	QRD161J-183	RESISTOR
	QEA40HZ-104	E CAPACITOR	1	R20	QRD161J-823	RESISTOR
C3	QCF31HP-102	CAPACITOR	1			
C3 C4		E CAPACITOR	Ì	R21	QRD161J-104	DECTOTOD
C3 C4 C5	QETC1CM-106					RESISTOR

*	REF NO.	PART NO.	PART NAME, DESCRIPTION		REF NO.		PART NAME, DESCRIPTION
	R23	QVZ3507-474	V RESISTOR, V.LOCK		S105	PU58486-1-1	SLIDE SWITCH
	R24	PG701302	V RESISTORATION BRIGHT	l	\$106	PU58488-1-1	SLIDE SWITCH
	R25	PGZ00688	V RESISTOR, P. SHARP		S107		TACT SWITCH
	R26	QRD161J-101		3	S108	PU57551	TACT SWITCH
	R27	ORD161J-101	RESISTOR				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		4			S111	PU57551	TACT SWITCH
	C1	QER61EM-475	E CAPACITOR		S112	PU57551	TACT SWITCH
	C2	QFJ41HJ-273	M CAPACITOR		S113	PU57551	TACT SWITCH
	C3		E CAPACITOR		\$115	PU57551	TACT SWITCH
	C4	QER61AM-476	E CAPACITOR		S116	PU57551	TACT SWITCH
	C5	QER60JM-476			S117	PU57551	TACT SWITCH
	C6		CAPACITOR		S118	PU57551	TACT SWITCH
	L1	PU59060	TRAP COIL	l	S121	PU57551	TACT SWITCH
				{	S122	PU57551	TACT SWITCH
	S1	PGZ01303	KEY LOCK SWITCH		\$123	PU57551	TACT SWITCH
	\$2	PU57551	TACT SWITCH		S124	PU57551	TACT SWITCH
	\$3	PU57551	TACT SWITCH		S125	PU57551	TACT SWITCH
	\$4	PU57551	TACT SWITCH	1	\$126	PU57551	TACT SWITCH
	S5	PU57551	TACT SWITCH				
	S6	PU57551	TACT SWITCH		CL1	PU59311-2	WIRE CLAMP
	S7	PU57551	TACT SWITCH				
	S8	PGZ01092	PUSH SWITCH		COL1	PRD30026-35	COLLAR
	S9	PU57551	TACT SWITCH				
	\$10	PU57551	TACT SWITCH	İ	HD1	PGZ01031-02	P C SUPPORT, X3
	Sll	PU57551	TACT SWITCH		SCW1	SPSP3012Z	SCREW
		-			SCW2	SBST3006Z	SCREW, X3
	CLI	PU59311-2	WIRE CLAMP, X3				
					SPC1	PU50634-2	
	JAl	PGZ00409	PIN JACK			PQM30017-4	SLIT WASHER
	SPC1	PU50634-2	LED SPACER		WR 1	PGW0202-080160	PARALLEL WIRE
	CN1	PU58844-6	CAP HOUSTNG		J101	QWE251-16A2A2	WIRE
	CNS	PU58844-3	CAP HOUSING CAP HOUSING		0101	WALEDI-IONEME	MIKE
	CN2	PU58844-2		l .	CN101	PU58844-10	CAP HOUSING
	CN4	PU58844-5			CN102		CAP HOUSING
	CN5	PU58844-10	CAP HOUSING		CN103	PU58844-6	CAP HOUSING
	O. S.	1 0 0 0 0 1 1 0	on indexing		CN104	PU58844-3	
64C V	*****	******	************		CN105	PGZ01070-16	
				l '			On 110001110

×	28.	OPERATION	2	BOARD	ASSY	<93>	*

PWBA2	PGE10139A2	OPERATION 2 BOARD ASSY
Q101	DTA114EF	TRANSISTOR
D103 D104 D105 D106	SLR-55VC3F SLR-55VC3F SLR-55VC3F SLR-55VC3F SLR-55VC3F SLR-55VC3F SLR-55VC3F	LE DIODE LE DIODE LE DIODE LE DIODE LE DIODE LE DIODE LE DIODE DIODE
R101 R102 R103 R104 R105 R106 R107	QRD161J-331 QRD161J-331 QRD161J-331 QRD161J-331 QRD161J-331 QRD161J-331 QRD161J-331	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR
R108	QRD161J-102	RESISTOR
\$101 \$102 \$103 \$104		SLIDE SWITCH